



## DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.

Activity No.: PER19960005

Agency Interest No. 1250

Mr. Russ Willmon  
General Manager, LCMC Operations  
CITGO Petroleum Corporation  
Lake Charles Manufacturing Complex  
P.O. Box 1562  
Lake Charles, LA 70602

RE: Part 70 Operating Permit, Thermal Area, Citgo Petroleum Corp - Lake Charles Manufacturing Complex, Sulphur, Calcasieu Parish, Louisiana

Dear Mr. Willmon:

This is to inform you that the permit for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the \_\_\_\_\_ of \_\_\_\_\_, 2011, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this \_\_\_\_\_ day of \_\_\_\_\_, 2006.

Permit No.: 2930-V0

Sincerely,

Chuck Carr Brown Ph.D.

Assistant Secretary

CCB: ACE

cc: EPA Region VI

**ENVIRONMENTAL SERVICES**

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**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Thermal Area**  
**Agency Interest No.: 1250**  
**Citgo Petroleum Corp - Lake Charles Manufacturing Complex**  
**Sulphur, Calcasieu Parish, Louisiana**

**I. Background**

Citgo Petroleum Corporation (CITGO) operates a petroleum refinery in Lake Charles, Louisiana. The Lake Charles Manufacturing Complex (LCMC) processes both domestic and foreign crude oils into sulfuric acid, benzene, propane, ethane, sulfur, gasoline, distillate and residual oil, propylene, coke, kerosene, lube oils and other miscellaneous petrochemical products. CITGO proposed to consolidate the various state permits with a Title V Consolidated Permit. An Initial Part 70 Consolidated Refinery Operating Permit application was submitted by CITGO for the entire LCMC in October, 1996. To facilitate the permitting approval process, CITGO is submitting multiple operational area permits for the LCMC. There will be seven (7) operational area permits in total for the LCMC. This submittal is for the proposed Thermal Area. Permit No. 2714-V1, dated July 29, 2003, and the following State approved permits will be completely superseded by this Thermal Area Title V permit and will no longer be applicable once the new operating permit is issued:

- Permit No. 220, dated October 30, 1973. Fuel Oil Conversion
- Permit No. 254, dated December 18, 1973. Fuel Oil Conversion (1% Sulfur)
- Permit No. 311, dated May 2, 1974. Reactivation of Deasphalting Unit
- Permit No. 737, dated May 20, 1977. Modification-“D” Topping Unit
- Permit No. 2595, dated February 12, 1999. C Topper/Straight Run PPR

The following permits will be partially superseded by this Thermal Area Title V permit and will remain active until other sources within these permits are fully covered by area wide Title V permits:

- Permit No. 1168R, dated August 10, 1979. New “C” Reformer and Refinery Modification
- Permit No. 1594, dated July 27, 1981. New Coker, Unicracker, and Refinery Modification
- Permit No. 1770T, dated September 22, 1982. Use TAC monitoring sites
- Permit No. 2797-V0, dated September 9, 2002. CVEP

This is the Part 70 operating permit for the facility.

**II. Origin**

A permit application and Emission Inventory Questionnaire was submitted by CITGO on October 1, 1996. A revised application was submitted on December 30, 2004 requesting a

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Part 70 operating permit. Additional information dated June 3 and 13, 2005, January 5, 6 and February 10, 2006 was also received.

### **III. Description**

The primary objectives of this permit application are to:

- Obtain an air emissions cap for process furnaces
- Obtain an air emissions cap for boilers (normal and alternate operating scenarios)
- Obtain an air emissions cap for process water tanks
- Identify and reconcile all existing air emission sources
- Obtain an operating permit for Pressure Protection Remediation (PPR) projects and re-rating of Process Safety Management (PSM) relief systems to comply with OSHA regulations
- Obtain non-PSD increases in firing rates of A- and B- Topper furnaces

The Thermal Area consists of three topper units (A, B & C), two vacuum units (E-1 and E-201), the Feed Preparation Unit, the Straight Run Fractionation (SRF) Unit, the Coker 1 Unit and the Powerhouse Unit. Emission sources are boilers, furnaces, process fugitive components, storage tanks, and an atmospheric vent .

#### **Topping Units**

The A, B, & C Topper Units process crude oil by separating it into various fractions through the distillation process. There are three main sections in the process: Pretreatment Section, Preheat and Furnace Section, and Fractionation and Stripper Section.

The Pretreatment Section utilizes heat exchangers and desalters to remove metallic salt compounds, basic sediment, and water from the pretreatment feed. The pretreatment feed will then be heated in the Preheat and Furnace Section, which utilizes heat exchangers and furnaces to increase the temperature of the feed to the point where separation can begin. The heated material is now a mixture of liquid and vapor and is introduced in a fractionation tower, where the Fractionation and Stripper Section begins. This section separates the material into tail gas, naphtha (gasoline), blend oil or kerosene, light gas oil (LGO), heavy gas oil (HGO) and straight run residue or long resid. The unstabilized naphtha feed will require pretreatment in the Feed Prep and SRF Units. Diesel and kerosene will be sent to storage while atmospheric gas oil and atmospheric residue will be routed to the Vacuum Units for further processing. Tail gas will be routed to gas processing to be amine treated and blended into the refinery fuel gas system. It is important to note that the A and B-Topper Units have a single furnace in each unit, while the C-Topper Unit has two furnaces.

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### **Vacuum Units**

The two refinery Vacuum Units (E-1 and E-201) remove the remaining gas oils from the resid from the Topping units using a distillation process. This process takes place under a vacuum (negative gauge pressure) to prevent thermal cracking of the resid. The vacuum unit process consists of one or two furnaces and a vacuum tower. The furnaces heat the feed to the boiling range of the gas oils. The heated feed exits the furnace and enters the vacuum tower where LGO and HGO are separated. The vacuum for the tower is provided by steam ejectors, which remove non-condensable gases and tail gas from the tower. The steam from the ejectors is condensed in a barometric condenser, and the non-condensibles and tail gas are routed to gas processing to be amine treated and blended into the refinery fuel gas system. Please note that the E-201 Vacuum Unit has two furnaces, while the E-1 Vacuum unit has two stacks, whereas the other vacuum unit furnaces have only a single stack each.

### **Feed Preparation Unit**

The Feed Preparation Unit stabilizes naphtha feed streams from the Topper Units, various other hydroprocessing units, and purchased feed. Products from the Feed Preparation Unit go to the SRF Unit and the Reformers. The process mainly consists of two fractionation towers and the reboiler furnace.

Feed first passes through preheaters which use fractionator streams and secondary fractionator streams as the heating media. The heated stream enters the fractionator tower where an overhead product is separated and sent to the SRF Unit for further processing. Bottoms from the fractionator go to the secondary tower where the naphtha is split as reformer feed. Streams from both tower bottoms go through the reboiler furnace and are circulated back to each tower. Secondary tower overhead and bottoms are both utilized as Reformer feed. There is a single furnace in the Feed Preparation Unit serving as a common reboiler for both fractionation towers. The furnace for the Feed Prep unit has two stacks.

### **Straight Run Fractionation Unit**

The Straight Run Fractionation (SRF) Unit processes light naphtha feed from the Feed Preparation Unit by separating various fractions from the feed through distillation. Condensate (naphtha) streams from various units throughout the LCMC are also processed at the SRF Unit. The SRF process takes place in a series of towers: mainly the depropanizer, the debutanizer, and the isopentane tower.

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SRF Unit feed is pumped to a feed surge drum and preheaters before it enters the depropanizer. The depropanizer, which utilizes a fired reboiler, separates propane and lighter hydrocarbons as overhead product and sends them to the Unicracker. The depropanizer bottoms enter the debutanizer where butane and lighter materials are separated as overhead product and sent to the Butane Splitter in the Alkylation Unit. Debutanizer bottoms enter the isopentane tower where straight run gasoline is separated as overhead product and sent to the refinery gasoline pool or Isomerization feed. Bottoms from the isopentane tower are pumped to storage to be used as Reformer feed. There is a single furnace in the SRF Unit.

#### **Coker I Unit**

The Coker I Unit converts heavy bottoms from the Topper Units and Vacuum Units into gasoline range naphthas, gas oils, petroleum coke and other products. The Coker I process consists of two main sections: Fractionation Section and Coking Section.

The Fractionation Section uses heat to separate four "products" from the feed: heavy coker gas oil, light coker gas oil, blend oil, and light naphtha. The heavy coker gas oil is used as FCCU feed. The light coker gas oil is used as feed for the Unicracker. The blend oil is processed by the BOH and B-LCOH units. The naphtha stream and the overhead vapors go to the C-4 Recovery Unit. Additionally, sour water generated by this process is recovered and reused.

The Coking Section uses a furnace to heat the feed, which cracks (chemically breaks) light materials from the heavier material. The vapor-liquid mixture leaving the furnaces is moved to the coke drums, where coke formation starts. The cracked vapors exit overhead and return to the bottom of the E-2 Combination Fractionation tower. During the blowdown cycle, the coke drum is cooled with steam and then with water. After the drum cools to certain temperatures and pressures, the drum is vented to the B-5 flare, then, after further cooling, to the blowdown stack. Finally, the drum vents are opened, and the coke is cut form the drum with high-pressure water. There are two furnaces in the Coker I Unit.

#### **Powerhouse**

There are 11 gas-fired boilers in the refinery Powerhouse unit that are utilized to generate steam for various processes at LCMC. There are 9 emission points (stacks) for the 11 boilers. Boilers B-1 and B-1A are routed to the same stack vent (Source ID 3(K-6)3), boilers B-3 and B-3B are routed to the same stack vent (Source ID 3(K-6)5), and boilers B-3A and B-3C are routed to the same stack vent (Source ID 3(K-6)6), however boiler B-3A is out of service.

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Estimated emissions in tons per year are as follows:

Pollutant	Before	After	Change
PM <sub>10</sub>	553.96	234.34	- 319.62
SO <sub>2</sub>	8339.91	3361.49	- 4978.42
NO <sub>x</sub>	9134.56	8544.69	- 589.87
CO	601.72	1948.91	+ 1347.19 <sup>1</sup>
VOC*	179.71	382.09	+ 202.38 <sup>1</sup>

<sup>1</sup> The emission increases reflect corrected emission factors, updated calculations, speciation of pollutants present but not specified in previous applications or permitting activities, and increases in firing rates of A- and B- Topper furnaces that do not trigger PSD.

\* VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
1,3 – Butadiene	-	0.05	+0.05
2,2,4 – Trimethylpentane	-	0.085	+ 0.085
Naphthalenes	0.11	0.15	+ 0.04
Benzene	0.14	0.38	+ 0.24
Cumene	0.04	0.08	+ 0.04
Ethyl Benzene	0.07	0.20	+ 0.13
n-Hexane	0.66	2.23	+ 1.57
Polynuclear aromatic hydrocarbons (PAHs)	0.06	1.26	+ 1.20
Phenol	0.01	0.006	- 0.004
Toluene	0.18	0.96	+ 0.78
Xylene	0.47	0.78	+ 0.31
Total	1.74	6.18	+ 4.44

Other VOC (TPY): 375.91

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**Non - VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

Pollutant	Before	After	Change
Ammonia	0.01	0.68	+ 0.67
Hydrogen Sulfide	2.43	3.69	+ 1.26
Total	2.44	4.37	+ 1.93

The total emission impact from the A and B-Topper furnace firing increases are shown in the following table:

Pollutant	Actual Average Emissions (tpy) before projects	Proposed Emissions after projects	Project Related Increases (Proposed – Actual) (tpy)	PSD Significance Threshold (tpy)
PM <sub>10</sub>	29.9	31.2	+ 1.3	15
SO <sub>2</sub>	140.9	147.1	+ 6.2	40
NO <sub>x</sub>	550.5	574.9	+ 24.4	40
CO	330.3	344.9	+ 14.6	100
VOC	21.6	22.6	+1.0	40

**IV. Type of Review**

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) does not apply.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

**V. Credible Evidence**

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit

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condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

**VI. Public Notice**

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 200X; and in the <local paper>, <local town>, on <date>, 200X. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

**VII. Effects on Ambient Air**

Dispersion Model(s) Used: ISCST3

Pollutant	Time Period	Calculated Maximum Ground Level Concentration ( $\mu\text{g}/\text{m}^3$ )	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard (NAAQS))
NO <sub>x</sub>	Annual	84.22	(100)
SO <sub>2</sub>	3-hour	920.04	(1300)
	24-hour	258.31	(365)
	Annual	47.21	(80)

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**VIII. General Condition XVII Activities**

Work Activity	Emission Rates ~ tons per year				
	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>X</sub>	CO	VOC
No. 1 Carbon Canister Changeouts	-	-	-	-	0.1
No. 2 Changing Filters	-	-	-	-	0.1
No. 3 Cleaning Equipment	-	-	-	-	0.2
No. 4 Use of Adsorbent Oil Pads	-	-	-	-	0.1
No. 5 Clearing of Pipelines	-	-	-	-	0.8
No. 6 Control Device Emissions	-	-	-	-	0.1
No. 7 Instrument Maintenance	-	-	-	-	0.2
No. 8 Liquid De-inventory to Sewer	-	-	-	-	1.0
No. 9 Miscellaneous Equipment Preparation	-	-	-	-	1.0
No. 10 Nitrogen Blowing of Pipelines	-	-	-	-	0.1
No. 11 Opening Off-Line Equipment	-	-	-	-	1.4
No. 12 Pump Maintenance	-	-	-	-	0.5
No. 13 Sampling & corrosion coupons	-	-	-	-	1.1
No. 14 Sludge Removal	-	-	-	-	1.0
No. 15 Solids Removal from Sumps	-	-	-	-	0.1
No. 16 Valve (all) Maintenance	-	-	-	-	0.2
No. 17 Vessel Preparation	-	-	-	-	1.1
No. 18 Exchanger Maintenance	-	-	-	-	0.8
No. 19 Draining Liquid from fuel gas	-	-	-	-	0.1
No. 20 Unit equipment depressuring/purging	-	-	-	-	3.8
No. 21 Equipment Chemical Cleaning	-	-	-	-	0.1
No. 22 Condenser Cleaning	-	-	-	-	0.4
No. 23 Equipment Decoking	-	-	-	-	2.9
No. 24 Equipment Decoking – B4	4.1	4.6	0.8	3.4	H <sub>2</sub> SO <sub>4</sub> : 0.1

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**General Condition XVII Activities continued**

Work Activity	Unit: B Topping Unit	Emission Rates – tons per year				
		PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>X</sub>	CO	VOC
No. 1	Carbon Canister Changeouts	-	-	-	-	0.1
No. 2	Changing Filters	-	-	-	-	0.1
No. 3	Cleaning Equipment	-	-	-	-	0.2
No. 4	Use of Adsorbent Oil Pads	-	-	-	-	0.1
No. 5	Clearing of Pipelines	-	-	-	-	0.8
No. 6	Control Device Emissions	-	-	-	-	0.1
No. 7	Instrument Maintenance	-	-	-	-	0.2
No. 8	Liquid De-inventory to Sewer	-	-	-	-	1.0
No. 9	Miscellaneous Equipment Preparation	-	-	-	-	1.0
No. 10	Nitrogen Blowing of Pipelines	-	-	-	-	0.1
No. 11	Opening Off-Line Equipment	-	-	-	-	1.4
No. 12	Pump Maintenance	-	-	-	-	0.5
No. 13	Sampling & corrosion coupons	-	-	-	-	1.1
No. 14	Sludge Removal	-	-	-	-	1.0
No. 15	Solids Removal from Sumps	-	-	-	-	0.1
No. 16	Valve (all) Maintenance	-	-	-	-	0.2
No. 17	Vessel Preparation	-	-	-	-	1.1
No. 18	Exchanger Maintenance	-	-	-	-	0.8
No. 19	Draining Liquid from fuel gas	-	-	-	-	0.1
No. 20	Unit equipment depressuring/purging	-	-	-	-	3.8
No. 21	Equipment Chemical Cleaning	-	-	-	-	0.1
No. 22	Equipment Decoking					2.9
No. 23	Condenser Cleaning					0.4
No. 24	Equipment Decoking – B104	4.1	4.6	0.8	3.4	H <sub>2</sub> SO <sub>4</sub> : 0.1

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**General Condition XVII Activities continued**

Work Activity	Emission Rates – tons per year				
	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>X</sub>	CO	VOC
No. 1 Carbon Canister Changeouts	-	-	-	-	0.1
No. 2 Changing Filters	-	-	-	-	0.1
No. 3 Cleaning Equipment	-	-	-	-	0.5
No. 4 Use of Adsorbent Oil Pads	-	-	-	-	0.1
No. 5 Clearing of Pipelines	-	-	-	-	0.6
No. 6 Control Device Emissions	-	-	-	-	0.1
No. 7 Instrument Maintenance	-	-	-	-	0.1
No. 8 Liquid De-inventory to Sewer	-	-	-	-	4.7
No. 9 Miscellaneous Equipment Preparation	-	-	-	-	0.3
No. 10 Nitrogen Blowing of Pipelines	-	-	-	-	0.1
No. 11 Opening Off-Line Equipment	-	-	-	-	4.2
No. 12 Pump Maintenance	-	-	-	-	0.4
No. 13 Sampling & corrosion coupons	-	-	-	-	0.3
No. 14 Sludge Removal	-	-	-	-	0.2
No. 15 Solids Removal from Sumps	-	-	-	-	0.1
No. 16 Valve (all) Maintenance	-	-	-	-	0.3
No. 17 Vessel Preparation	-	-	-	-	0.2
No. 18 Exchanger Maintenance (non t/a clean)	-	-	-	-	0.1
No. 19 Unit equipment depressuring/purging	-	-	-	-	1.9
No. 20 Equipment Chemical Cleaning	-	-	-	-	0.1
No. 21 Equipment Decoking	-	-	-	-	1.7
No. 22 Equipment Decoking – B1	2.4	2.7	0.5	2.1	H <sub>2</sub> SO <sub>4</sub> : 0.1

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**General Condition XVII Activities continued**

<b>Unit: E-201 Vacuum</b>		Emission Rates – tons per year				
	Work Activity	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>X</sub>	CO	VOC
No. 1	Carbon Canister Changeouts	-	-	-	-	0.1
No. 2	Changing Filters	-	-	-	-	0.1
No. 3	Cleaning Equipment	-	-	-	-	0.5
No. 4	Use of Adsorbent Oil Pads	-	-	-	-	0.1
No. 5	Clearing of Pipelines	-	-	-	-	0.6
No. 6	Control Device Emissions	-	-	-	-	0.1
No. 7	Instrument Maintenance	-	-	-	-	0.1
No. 8	Liquid De-inventory to Sewer	-	-	-	-	4.7
No. 9	Miscellaneous Equipment Preparation	-	-	-	-	0.3
No. 10	Nitrogen Blowing of Pipelines	-	-	-	-	0.1
No. 11	Opening Off-Line Equipment	-	-	-	-	4.2
No. 12	Pump Maintenance	-	-	-	-	0.4
No. 13	Sampling & corrosion coupons	-	-	-	-	0.3
No. 14	Sludge Removal	-	-	-	-	0.2
No. 15	Solids Removal from Sumps	-	-	-	-	0.1
No. 16	Valve (all) Maintenance	-	-	-	-	0.3
No. 17	Vessel Preparation	-	-	-	-	0.2
No. 18	Exchanger Maintenance (non t/a clean)	-	-	-	-	0.1
No. 19	Unit equipment depressuring/purging	-	-	-	-	1.9
No. 20	Equipment Chemical Cleaning	-	-	-	-	0.1
No. 21	Equipment Decoking B-2A	1.2	1.5	0.5	1.3	VOC: H <sub>2</sub> SO <sub>4</sub> : 0.9      0.1
No. 22	Equipment Decoking – B201	1.0	1.2	0.5	1.1	VOC: H <sub>2</sub> SO <sub>4</sub> : 0.7      0.1

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Work Activity	Emission Rates – tons per year				
	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>X</sub>	CO	VOC
No. 1 Carbon Canister Changeouts	-	-	-	-	0.1
No. 2 Changing Filters	-	-	-	-	0.1
No. 3 Cleaning Equipment	-	-	-	-	0.3
No. 4 Use of Adsorbent Oil Pads	-	-	-	-	0.1
No. 5 Clearing of Pipelines	-	-	-	-	0.6
No. 6 Control Device Emissions	-	-	-	-	0.1
No. 7 Instrument Maintenance	-	-	-	-	0.1
No. 8 Liquid De-inventory to Sewer	-	-	-	-	3.8
No. 9 Miscellaneous Equipment Preparation	-	-	-	-	0.3
No. 10 Nitrogen Blowing of Pipelines	-	-	-	-	0.1
No. 11 Opening Off-Line Equipment	-	-	-	-	4.8
No. 12 Pump Maintenance	-	-	-	-	0.2
No. 13 Purging Off-Spec Material to Flares	-	-	-	-	0.2
No. 14 Sampling & corrosion coupons	-	-	-	-	0.2
No. 15 Sludge Removal	-	-	-	-	0.5
No. 16 Solids Removal from Sumps	-	-	-	-	0.1
No. 17 Valve (all) Maintenance	-	-	-	-	1.3
No. 18 Vessel Preparation	-	-	-	-	0.2
No. 19 Exchanger Maintenance	-	-	-	-	0.1
No. 20 Unit equipment depressuring/purging	-	-	-	-	1.5
No. 21 Equipment Chemical Cleaning	-	-	-	-	0.1
No. 22 Equipment Decoking	-	-	-	-	1.7
No. 23 Equipment Decoking – B101	2.4	2.7	0.5	2.1	H <sub>2</sub> SO <sub>4</sub> : 0.1

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Thermal Area**  
**Agency Interest No.: 1250**  
**Citgo Petroleum Corp - Lake Charles Manufacturing Complex**  
**Sulphur, Calcasieu Parish, Louisiana**

**General Condition XVII Activities continued**

Unit: Topper Tail Gas Compression		Emission Rates ~ tons per year				
	Work Activity	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>X</sub>	CO	VOC
No. 1	Carbon Canister Changeouts	-	-	-	-	0.1
No. 2	Changing Filters	-	-	-	-	0.1
No. 3	Cleaning Equipment	-	-	-	-	0.2
No. 4	Use of Adsorbent Oil Pads	-	-	-	-	0.1
No. 5	Clearing of Pipelines	-	-	-	-	0.2
No. 6	Compressor Maintenance					0.1
No. 7	Control Device Emissions	-	-	-	-	0.1
No. 8	Instrument Maintenance	-	-	-	-	0.1
No. 9	Liquid De-inventory to Sewer	-	-	-	-	1.9
No. 10	Miscellaneous Equipment Preparation	-	-	-	-	1.7
No. 11	Nitrogen Blowing of Pipelines	-	-	-	-	0.1
No. 12	Opening Off-Line Equipment	-	-	-	-	4.2
No. 13	Pump Maintenance	-	-	-	-	0.2
No. 14	Purging Off-Spec Material to Flares	-	-	-	-	0.2
No. 15	Sampling & corrosion coupons	-	-	-	-	0.1
No. 16	Solids Removal from Sumps	-	-	-	-	0.1
No. 17	Vacuum Breaker Maintenance	-	-	-	-	0.1
No. 18	Valve (all) Maintenance	-	-	-	-	1.1
No. 19	Vessel Preparation	-	-	-	-	0.1
No. 20	Exchanger Maintenance	-	-	-	-	0.1
No. 21	Unit equipment depressuring/purging	-	-	-	-	1.5
No. 22	Equipment Chemical Cleaning	-	-	-	-	0.1

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Thermal Area**  
**Agency Interest No.: 1250**  
**Citgo Petroleum Corp - Lake Charles Manufacturing Complex**  
**Sulphur, Calcasieu Parish, Louisiana**

**General Condition XVII Activities continued**

Work Activity	Emission Rates – tons per year				
	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>X</sub>	CO	VOC
No. 1 Carbon Canister Changeouts	-	-	-	-	0.1
No. 2 Changing Filters	-	-	-	-	0.1
No. 3 Cleaning Equipment	-	-	-	-	0.4
No. 4 Use of Adsorbent Oil Pads	-	-	-	-	0.1
No. 5 Clearing of Pipelines	-	-	-	-	0.6
No. 6 Compressor Maintenance	-	-	-	-	0.1
No. 7 Control Device Emissions	-	-	-	-	0.5
No. 8 Draining Compressor Bottles	-	-	-	-	0.1
No. 9 Instrument Maintenance					0.2
No. 10 Liquid De-inventory to Sewer	-	-	-	-	1.0
No. 11 Miscellaneous Equipment Preparation	-	-	-	-	0.5
No. 12 Nitrogen Blowing of Pipelines	-	-	-	-	0.1
No. 13 Opening Off-Line Equipment	-	-	-	-	1.1
No. 14 Pump Maintenance	-	-	-	-	0.4
No. 15 Purging Off-Spec Material to Flares	-	-	-	-	0.1
No. 16 Sampling & corrosion coupons	-	-	-	-	0.8
No. 17 Sludge Removal	-	-	-	-	2.4
No. 18 Solids Removal from Sumps	-	-	-	-	0.1
No. 19 Tank Gauging	-	-	-	-	0.1
No. 20 Valve (all) Maintenance	-	-	-	-	0.1
No. 21 Vessel Preparation	-	-	-	-	0.2
No. 22 Exchanger Maintenance	-	-	-	-	0.2
No. 23 Draining liquid from fuel gas	-	-	-	-	0.1
No. 24 Unit equipment depressuring/purging	-	-	-	-	3.8
No. 25 Equipment Chemical Cleaning	-	-	-	-	0.1
No. 26 Equipment Decoking B-2A	2.4	2.9	1.9	2.6	VOC: H <sub>2</sub> SO <sub>4</sub> : 0.1
No. 27 Equipment Decoking B-201	2.4	2.9	1.9	2.6	VOC: H <sub>2</sub> SO <sub>4</sub> : 0.1

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
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**Thermal Area**  
**Agency Interest No.: 1250**  
**Citgo Petroleum Corp - Lake Charles Manufacturing Complex**  
**Sulphur, Calcasieu Parish, Louisiana**

**General Condition XVII Activities continued**

	Unit: C-Topping Unit Work Activity	Emission Rates – tons per year				
		PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>X</sub>	CO	VOC
No. 1	Carbon Canister Changeouts	-	-	-	-	0.1
No. 2	Cleaning Equipment	-	-	-	-	0.3
No. 3	Use of Adsorbent Oil Pads	-	-	-	-	0.1
No. 4	Clearing of Pipelines	-	-	-	-	0.8
No. 5	Control Device Emissions	-	-	-	-	0.1
No. 6	Instrument Maintenance	-	-	-	-	0.2
No. 7	Liquid De-inventory to Sewer	-	-	-	-	1.0
No. 8	Miscellaneous Equipment Preparation	-	-	-	-	1.1
No. 9	Nitrogen Blowing of Pipelines					0.2
No. 10	Opening Off-Line Equipment	-	-	-	-	4.2
No. 11	Pump Maintenance	-	-	-	-	0.5
No. 12	Purging Off-Spec Material to Flares	-	-	-	-	0.2
No. 13	Sampling & corrosion coupons	-	-	-	-	0.5
No. 14	Sludge Removal	-	-	-	-	0.5
No. 15	Solids Removal from Sumps	-	-	-	-	0.1
No. 16	Valve (all) Maintenance	-	-	-	-	0.3
No. 17	Vessel Preparation					1.1
No. 18	Exchanger Maintenance	-	-	-	-	0.8
No. 19	Draining liquid from fuel gas	-	-	-	-	0.1
No. 20	Unit equipment depressuring/purging	-	-	-	-	3.8
No. 21	Equipment Chemical Cleaning	-	-	-	-	0.1
No. 22	Equipment Decoking B-1C	1.3	1.5	1.1	1.3	VOC: H <sub>2</sub> SO <sub>4</sub> : 1.0      0.1
No. 23	Equipment Decoking B-2C	1.0	1.2	1.1	1.1	VOC: H <sub>2</sub> SO <sub>4</sub> : 0.8      0.1

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
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**Thermal Area**  
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**Citgo Petroleum Corp - Lake Charles Manufacturing Complex**  
**Sulphur, Calcasieu Parish, Louisiana**

**General Condition XVII Activities continued**

	Unit: Straight Run Fractionation  (SRF)	Work Activity	Emission Rates – tons per year				
			PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>X</sub>	CO	VOC
No. 1	Carbon Canister Changeouts		-	-	-	-	0.1
No. 2	Changing Filters		-	-	-	-	< 0.01
No. 3	Cleaning Equipment						0.3
No. 4	Use of Adsorbent Oil Pads		-	-	-	-	0.1
No. 5	Clearing of Pipelines		-	-	-	-	0.8
No. 6	Control Device Emissions		-	-	-	-	0.2
No. 7	Instrument Maintenance		-	-	-	-	0.2
No. 8	Liquid De-inventory to Sewer		-	-	-	-	1.0
No. 9	Miscellaneous Equipment Preparation		-	-	-	-	1.1
No. 10	Nitrogen Blowing of Pipelines						0.2
No. 11	Opening Off-Line Equipment		-	-	-	-	1.4
No. 12	Pump Maintenance		-	-	-	-	0.5
No. 13	Purging Off-Spec Material to Flares		-	-	-	-	0.2
No. 14	Sampling & corrosion coupons		-	-	-	-	0.3
No. 15	Sludge Removal		-	-	-	-	0.5
No. 16	Solids Removal from Sumps		-	-	-	-	0.1
No. 17	Valve (all) Maintenance		-	-	-	-	2.1
No. 18	Vessel Preparation						1.1
No. 19	Exchanger Maintenance		-	-	-	-	0.8
No. 20	Draining liquid from fuel gas		-	-	-	-	0.1
No. 21	Unit equipment depressuring/purging		-	-	-	-	1.9
No. 22	Equipment Chemical Cleaning		-	-	-	-	0.1
No. 23	Equipment Decoking B-5		0.7	0.9	0.5	0.9	VOC: H <sub>2</sub> SO <sub>4</sub> : 0.5 0.1

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Thermal Area**  
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**Citgo Petroleum Corp - Lake Charles Manufacturing Complex**  
**Sulphur, Calcasieu Parish, Louisiana**

**General Condition XVII Activities continued**

Work Activity	Emission Rates – tons per year				
	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>X</sub>	CO	VOC
No. 1 Changing Filters	-	-	-	-	0.001
No. 2 Use of Adsorbent Oil Pads	-	-	-	-	0.035
No. 3 Clearing of Pipelines					0.395
No. 4 Compressor Maintenance	-	-	-	-	0.348
No. 5 Control Device Emissions	-	-	-	-	0.030
No. 6 Instrument Maintenance	-	-	-	-	0.125
No. 7 Miscellaneous Equipment Preparation	-	-	-	-	0.263
No. 8 Nitrogen Blowing of Pipelines	-	-	-	-	0.006
No. 9 Pump Maintenance	-	-	-	-	0.155
No. 10 Sampling & corrosion coupons	-	-	-	-	0.317
No. 11 Valve (all) Maintenance	-	-	-	-	0.158
No. 12 Draining liquid from fuel gas	-	-	-	-	0.080
No. 13 Diesel Firewater pumps test & service	-	-	-	-	2.115
No. 14 Boiler purge	-	-	-	-	0.400

**IX. Insignificant Activities**

Description –	Citation
External combustion heating equipment with a design rate greater than or equal to 1 million Btu per hour but less than or equal to 10 million Btu per hour, insignificant do not exceed five tons per year.	LAC 33:III.501.B.5.A.1
Ex. Generators that are used to power operational equipment such as pumps, compressors, etc.	

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**Citgo Petroleum Corp - Lake Charles Manufacturing Complex**  
**Sulphur, Calcasieu Parish, Louisiana**

Storage tanks < 250 gals storing organic liquids with TVP <= 3.5 psia and annual emissions < 5 tons.

Ex. Tote Bins on the unit that contain treating chemicals such as anti-foam corrosion inhibitors, and emulsion breakers. LAC 33:III.501.B.5.A.2

Storage tanks < 10,000 gals storing organic liquids with TVP < 3.5 psia and annual emissions < 5 tons.

LAC 33:III.501.B.5.A.3

Ex. Tote Bins that contain treating chemicals such as clarifying polymers, flocculant polymers.

Emissions of any inorganic air pollutant that is not a regulated air pollutant as defined under LAC 33:III.502, with annual emissions < 5 tons.

LAC 33:III.501.B.5.A.4

Ex. Silica is used by the units.

External combustion equipment with a design rate less than 1 million Btu per hour.

LAC 33:III.501.B.5.A.5

Ex. Generators that are used to power operational equipment such as pumps, compressors, etc.

Laboratory equipment/vents used exclusively for routine chemical or physical analysis for quality control or environmental monitoring purposes with annual emissions < 5 tons.

LAC 33:III.501.B.5.A.6

Ex. Small area to do conduct spot checks in the field for control of the operations.

Noncommercial water washing operations of empty drums less than or equal to 55 gallons with less than 3 percent of the maximum container volume of material.

LAC 33:III.501.B.5.A.7

Ex. Wash empty drums that contain treating chemicals for the unit before sending to the drum crusher.

Maintenance of grounds and buildings.

Ex. Cleaning activities on the unit and pest control in the unit shelter.

LAC 33:III.501.B.5.B.1

Surface coating of equipment using paint with < 3.5 lb/gal

Ex. Painting activities such as repainting safety equipment and labeling lines and operational equipment.

LAC 33:III.501.B.5.B.2

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Thermal Area**  
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**Citgo Petroleum Corp - Lake Charles Manufacturing Complex**  
**Sulphur, Calcasieu Parish, Louisiana**

Miscellaneous equipment maintenance or construction.	
Ex. Steam cleaning outside of equipment, water blasting concrete to clean it.	LAC 33:III.501.B.5.B.3
Exhaust emissions or vehicle re-fueling emissions.	LAC 33:III.501.B.5.B.4
Ex. Refueling of forklifts and generators.	
Office activities such as photocopying, blueprinting copying, and photographic processes.	LAC 33:III.501.B.5.B.5
Ex. Copy machine in unit shelter.	
Site assessment work to characterize waste disposal or remediation sites.	LAC 33:III.501.B.5.B.6
Ex. Sampling of unit material for disposal.	
Operation of groundwater remediation wells, including emissions from the pumps and collection activities. This does not include emissions from the air stripping or storage.	LAC 33:III.501.B.5.B.7
Ex. Recovery wells.	
Non-TAP emissions from storage or use of water treating chemicals (including cooling towers, drinking water systems, and boilerwater/feedwater systems).	LAC 33:III.501.B.5.B.8
Ex. Chlorine for potable water.	
Miscellaneous additions or upgrades of instrumentation or control systems.	LAC 33:III.501.B.5.B.9
Ex. Replacement of instrumentation and control systems due to parts availability.	
Emissions from air contaminant detectors, air contaminant recorders, combustion controllers, or combustion shutoff devices.	LAC 33:III.501.B.5.B.11
Ex. H <sub>2</sub> S monitor testing location on the unit.	
Buildings, cabinets, and facilities used for storage of chemicals in closed containers.	LAC 33:III.501.B.5.B.12
Ex. Cleaning materials stored in unit shelter for cleaning.	

**AIR PERMIT BRIEFING SHEET**  
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**Thermal Area**  
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**Citgo Petroleum Corp - Lake Charles Manufacturing Complex**  
**Sulphur, Calcasieu Parish, Louisiana**

Use of products for the purpose of maintaining facility motor vehicles, not including A/C units.	LAC 33:III.501.B.5.B.13
Ex. Fuel gas additives for unit vehicle, greasing compounds for forklifts.	
Stacks or vents to prevent escape of sanitary sewer gases through plumbing traps.	LAC 33:III.501.B.5.B.15
Ex. Units shelter has a bathroom with a sewer gas trap system.	
Emissions from oil mist generator and pump lubricating system.	LAC 33:III.501.B.5.B.16
Ex. Lube mist system for unit pumps.	
Air conditioning or comfort ventilation systems not regulated under Title V of the Federal Clean Air Act.	LAC 33:III.501.B.5.B.17
Ex. Unit shelter air conditioning system, Smoke shack cooling mist fans.	
Instrument air systems, excluding fuel-fired compressors.	LAC 33:III.501.B.5.B.22
Ex. Unit has an instrument air system.	
Paved parking lots.	LAC 33:III.501.B.5.B.23
Ex. Repaving of parking areas.	
Air vents from air compressors.	LAC 33:III.501.B.5.B.24
Ex. Air vent off compressors used on the unit for operations and maintenance.	
Periodic use of air for cleanup.	LAC 33:III.501.B.5.B.25
Ex. Use of air compressor to clean units.	
Solid waste dumpsters.	LAC 33:III.501.B.5.B.26
Ex. Units have solid waste dumpsters for plant trash and unit clean-ups.	
Emissions from pneumatic starters on reciprocating engines, turbines, or other equipment;	LAC 33:III.501.B.5.B.28
Ex. Temporarily bring in air compressors with reciprocating engines to clean units.	
Emissions from engine crankcase vents.	LAC 33:III.501.B.5.B.30
Ex. Use of diesel driven equipment in the units.	

**AJR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
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**Citgo Petroleum Corp - Lake Charles Manufacturing Complex**  
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Emergency use generators, boilers, or other fuel burning equipment which is of equal or smaller capacity than the primary operating unit, cannot be used in conjunction with the primary operating unit, and does not emit, have or cause the potential to emit of any regulated air pollutant to increase.

LAC 33:III.501.B.5.B.32

Ex. Unit pump fails, unit will use temporary diesel driven pump to maintain operations.

Emissions from caustic storage tanks which contain no VOC.

LAC 33:III.501.B.5.B.40

Ex. Caustic storage for pH control.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Thermal Area**  
**Agency Interest No.: 1250**  
**Citgo Petroleum Corp - Lake Charles Refinery Manufacturing Complex**  
**Sulphur, Calcasieu Parish, Louisiana**

**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	LAC 33:III.Chapter												1	1	1	1	1
		5*	9	11	13	15	2103	2104*	2107	2111	2113	2115	2141					
	Plant Wide (Thermal Area)	1	1	1														
EQT 247	3(I)5 A Topper Furnace B-4				1	1												
EQT 248	3(I)6 B Topper Furnace B-104				1	1	1											
EQT 249	3(I-D)1 Vacuum Furnace B-201				1	1	1											
EQT 250	3(I-D)2 Vacuum Furnace B-2A				1	1	1											
EQT 251	3(I-D)3 Vacuum Furnace B-1				1	1	1											
EQT 252	3(III)1 Coker 1 Furnace B-101				1	1	1											
EQT 253	3(III)2 Coker 1 Furnace B-201				1	1	1											
EQT 254	3(VII)1 SRF Furnace B-5				1	1	1											
EQT 255	3(VII-C)1 C Topper Furnace B-1C				1	1	1											
EQT 256	3(VII-C)2 C Topper Furnace B-2C				1	1	1											
EQT 257	3(XIII)1 Feed Prep Furnace B-101				1	1	1											
EQT 258	3(I)7 A Topper Blowdown Stack B-2																	
EQT 259	3(I)8 B Topper Blowdown Stack B-105																	

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Thermal Area  
Agency Interest No.: 1250  
Citgo Petroleum Corp - Lake Charles Refinery Manufacturing Complex  
Sulphur, Calcasieu Parish, Louisiana**

**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	LAC 33:III.Chapter																
		5*	9	11	13	15	2103	2104*	2107	2111	2113	2115	2141	22	29*	51*	53	56
EQT 260	3(III)4 Coker Blowdown Stack B102 (BD)													1				
EQT 261	3(III)3 Process Water Collection System (Coker 1 sludge tank) T-101																	3
EQT 262	3(III)5 Process Water Collection System (Coker 1 sludge tank) T-102																	3
EQT 263	3(III)6 Process Water Collection System (Coker 1 sludge tank) T-103																	3
EQT 264	3(K-6)1 Powerhouse Boiler B1C																	2
EQT 265	3(K-6)2 Powerhouse Boiler B1B																	2
EQT 266	3(K-6)3 Powerhouse Boiler B1, B1A																	2
EQT 267	3(K-6)4 Powerhouse Boiler B2																	2
EQT 268	3(K-6)5 Powerhouse Boiler B2A																	2
EQT 269	3(K-6)6 Powerhouse Boiler B3, B3B																	2
EQT 270	3(K-6)7 Powerhouse Boiler B3A,B3C																	2
EQT 271	3(K-6)8 Powerhouse Boiler B5A																	2
EQT 272	3(K-6)9 Powerhouse Boiler B5																	2
FUG 014	3(MISC)1 Thermal Area Fugitives																	3 <sup>e</sup>
																		1

## **LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

### **Thermal Area**

**Agency Interest No.: 1250**

**Citgo Petroleum Corp - Lake Charles Refinery Manufacturing Complex  
Sulphur, Calcasieu Parish, Louisiana**

\* The regulations indicated above are State Only regulations except for LAC 33:III.501.C.6 Limitations that specifically state that the regulation is Federally Enforceable.

### **KEY TO MATRIX**

- 1    -The regulations have applicable requirements that apply to this particular emission source.  
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2    -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3    -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

3<sup>e</sup> – Compliance is achieved by implementing the Consolidated Fugitive Program. Fugitive compliance is achieved through compliance with Louisiana Refinery MACT.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Thermal Area**  
**Agency Interest No.: 1250**  
**Citgo Petroleum Corp - Lake Charles Refinery Manufacturing Complex**  
**Sulphur, Calcasieu Parish, Louisiana**

**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR		
		A	K <sub>a</sub>	K <sub>b</sub>	D <sub>b</sub>	D <sub>c</sub>	GGG	QQQ	A	J	M	FF	A	CC	SS	VV	DDDDD	S2	68	82		
EQT 247	Plant Wide (Thermal Area)	1							1	1	1	1						1	1	1		
EQT 248	3(I)5 A Topper Furnace B-4				3	3						1									1	
EQT 249	3(I)6 B Topper Furnace B-104				3	3						1									1	
EQT 250	3(I-D)1 Vacuum Furnace B-201				3	3						1									1	
EQT 251	3(I-D)2 Vacuum Furnace B-2A				3	3						1									1	
EQT 252	3(I-D)3 Vacuum Furnace B-1				3	3						1									1	
EQT 253	3(III)1 Coker 1 Furnace B-101				3	3						1									1	
EQT 254	3(III)2 Coker 1 Furnace B-201				3	3						1									1	
EQT 255	3(VII)1 SRF Furnace B-5				3	3						1									1	
EQT 256	3(VII-C)1 C Topper Furnace B-1C				3	3						1									1	
EQT 257	3(VII-C)2 C Topper Furnace B-2C				3	3						1									1	
EQT 258	3(XIII)1 Feed Prep Furnace B-101				3	3						1									1	
EQT 259	3(I)7 A Topper Blowdown Stack B-2																			3		
	3(I)8 B Topper Blowdown Stack B-105																			3		

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Thermal Area**  
**Agency Interest No.: 1250**  
**Citgo Petroleum Corp - Lake Charles Refinery Manufacturing Complex**  
**Sulphur, Calcasieu Parish, Louisiana**

**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR		
		A	Ka	Kb	Db	Dc	GGG	QQQ	A	J	M	FF	A	CC	SS	VV	DDDD	S2	68	82		
EQT 260	3(III)4 Coker Blowdown Stack B102 (BD)																					
EQT 261	3(III)3 Process Water Collection System (Coker 1 sludge tank) T-101	3	3										1								3	
EQT 262	3(III)5 Process Water Collection System (Coker 1 sludge tank) T-102	3	3										1								1	
EQT 263	3(III)6 Process Water Collection System (Coker 1 sludge tank) T-103	3	3										1								1	
EQT 264	3(K-6)1 Powerhouse Boiler B1C												1								1	
EQT 265	3(K-6)2 Powerhouse Boiler B1B												1								1	
EQT 266	3(K-6)3 Powerhouse Boiler B1, B1A												1								1	
EQT 267	3(K-6)4 Powerhouse Boiler B2												1								1	
EQT 268	3(K-6)5 Powerhouse Boiler B2A												1								1	
EQT 269	3(K-6)6 Powerhouse Boiler B3, B3B B3A,B3C												1								1	
EQT 270	3(K-6)7 Powerhouse Boiler												1								1	
EQT 271	3(K-6)8 Powerhouse Boiler B5A												1								1	
EQT 272	3(K-6)9 Powerhouse Boiler B5												1								1	
FUG 014	3(MISC)1 Thermal Area Fugitives												3 <sup>e</sup>									1

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Thermal Area**

**Agency Interest No.: 1250**

**Citgo Petroleum Corp - Lake Charles Refinery Manufacturing Complex  
Sulphur, Calcasieu Parish, Louisiana**

**KEY TO MATRIX**

- 1 - The regulations have applicable requirements that apply to this particular emission source.  
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.  
Blank – The regulations clearly do not apply to this type of emission source.  
3<sup>e</sup> – Compliance is achieved by implementing the Consolidated Fugitive Program. Fugitive compliance is achieved through compliance with Louisiana Refinery MACT.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Thermal Area**  
**Agency Interest No.: 1250**  
**Citgo Petroleum Corp - Lake Charles Refinery Manufacturing Complex**  
**Sulphur, Calcasieu Parish, Louisiana**

**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
GRP127 THERMAL AREA	Compliance Assurance Monitoring For Major Stationary Sources 40 CFR 64	<b>DOES NOT APPLY</b> Applies to a pollutant-specific emissions unit at a major source that is required to obtain a part 70 or 71 permit if the unit satisfies certain criteria. Rule does not apply to emissions units subject to an emission limitation or standard proposed by the Administrator after November 15, 1990 pursuant to section 111 or 112 of the Act.
GRP122 3(THERM- F)CAP (Furnaces)	Emission Standards for Sulfur Dioxide [LAC 33.III.1503]	<b>EXEMPT.</b> Sources emit < 250 tpy SO2
	Comprehensive Toxic Air Pollutant Program LAC 33.III.5109 <b>STATE ONLY</b>	<b>EXEMPT.</b> Air toxic emissions from the combustion of Group 1 virgin fossil fuels are exempted per LAC 33.III.5105.B.3.a
	NSPS Subpart D – Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971 [40 CFR 60.40-47]	<b>DOES NOT APPLY.</b> Furnaces are not steam generation units.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Thermal Area**  
**Agency Interest No.: 1250**  
**Citgo Petroleum Corp - Lake Charles Refinery Manufacturing Complex**  
**Sulphur, Calcasieu Parish, Louisiana**

**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
	NSPS Subpart Db – Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60.40b-49b]	<b>DOES NOT APPLY.</b> No potentially affected facilities were constructed after 06/19/84 in this group of furnaces.
	NSPS Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60.40c-48c]	<b>DOES NOT APPLY.</b> No potentially affected facilities were constructed after 06/09/89 in this group of furnaces.
GRP 123 3(III-TANK) Process Water Tank CAP	Storage of Volatile Organic Compounds [LAC 33:III.2103]	<b>DOES NOT APPLY.</b> Tank stores wastewater and not Volatile Organic Compounds.
	Comprehensive Toxic Air Program [LAC 33:III.5109] <b>STATE ONLY</b>	<b>DOES NOT APPLY.</b> Tank stores wastewater and not Organic liquids.
	NSPS Subpart K – Standards for Petroleum for Storage Vessels for Petroleum Liquids. [40 CFR 60.110]	<b>DOES NOT APPLY.</b> Does not store any petroleum liquids.
	NSPS Subpart Ka – Standards for Performance for Storage Vessels for Petroleum Liquids. [40 CFR 60.110a]	<b>DOES NOT APPLY.</b> Does not store any petroleum liquids.
	NSPS Subpart Kb – Standards for Performance for Storage Vessels for Petroleum Liquids. [40 CFR 60.110b]	<b>DOES NOT APPLY.</b> Constructed prior to 1984.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Thermal Area**  
**Agency Interest No.: 1250**  
**Citgo Petroleum Corp - Lake Charles Refinery Manufacturing Complex**  
**Sulphur, Calcasieu Parish, Louisiana**

**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No.	Requirement	Notes
GRP 124 3(K-6) Boiler CAP	Emission Standards for Sulfur Dioxide [LAC 33.III.1503]	<b>EXEMPT.</b> Sources emit <250 tpy SO <sub>2</sub> .
	Comprehensive Toxic Air Pollutant Program [LAC 33.III.5109]	<b>EXEMPT.</b> Air toxic emissions from the combustion of Group 1 virgin fossil fuels are exempted per LAC 33.III.5105.B.3.a.
	NSPS Subpart D – Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971 [40 CFR 60.40-47]	<b>DOES NOT APPLY.</b> All boilers were constructed prior to August 17, 1971, except for Boilers B-5A and B-5, which were constructed after 6/19/84. Subpart D does not apply to sources constructed after 6/19/84.
	NSPS Subpart Db – Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60.40b-49b]	<b>DOES NOT APPLY.</b> Boilers were constructed before June 19, 1984, except for Boilers B-5A and B5, which were constructed in 1993. Subpart Db does apply to Boilers B-5A and B5.
	NSPS Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60.40c-48c]	<b>DOES NOT APPLY.</b> Heat input for each boiler > 100 MMBTU/HR.
GRP 126 3(THERM-PSD)	NSPS Subpart Db – Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60.40b-49b] A Topper and B Topper CAP	<b>DOES NOT APPLY.</b> No potentially affected facilities were constructed after 06/19/84 in this group of furnaces.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Thermal Area**  
**Agency Interest No.: 1250**  
**Citgo Petroleum Corp - Lake Charles Refinery Manufacturing Complex**  
**Sulphur, Calcasieu Parish, Louisiana**

**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
GRP 126 continued	NSPS Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60.40c-48c]	<b>DOES NOT APPLY.</b> No potentially affected facilities were constructed after 06/09/89 in this group of furnaces.
EQT258 – 3(1)(4) Coker Blowdown Stack, EQT 259 – 3(1) A Topper Stack B-2, EQT 260 - 3(1) B-Topper Stack B-105	Comprehensive Toxic Air Pollutant Program [LAC 33:III.5109] STATE ONLY	<b>EXEMPT.</b> Gaseous streams from episodic or non-routine sources associated with events such as startup, shutdown, malfunction, maintenance, and depressuring are specifically exempted in the LA MACT Determination for Petroleum Refineries July 26, 1994.
FUG014, Thermal Area Fugitives	NESHAP, Subpart CC – National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries [40 CFR 63.640]	<b>DOES NOT APPLY.</b> Under miscellaneous process vent exclusion (4) for episodic or non-routine sources associated with events such as startup, shutdown, malfunction, maintenance, and depressuring (40 CFR 63.641).
	NSPS Subpart GGG – Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries [40 CFR 60.590]	<b>DOES NOT APPLY.</b> Source complies with the Louisiana Consolidated Fugitive Program.
	NESHAP, Subpart J – National Emission Standard for Equipment Leaks (Fugitive Emission Sources) of Benzene [40CFR 61.110]	<b>DOES NOT APPLY.</b> Does not meet definition of “In Benzene Service” (<10% Benzene)

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

Thermal Area

Agency Interest No.: 1250

Citgo Petroleum Corp - Lake Charles Refinery Manufacturing Complex  
Sulphur, Calcasieu Parish, Louisiana

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

## 40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]

## **40 CFR PART 70 GENERAL CONDITIONS**

- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
  2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
  3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
  4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.  
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
  2. the date(s) analyses were performed;
  3. the company or entity that performed the analyses;
  4. the analytical techniques or methods used;
  5. the results of such analyses; and
  6. the operating conditions as existing at the time of sampling or measurement.
- [Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(ii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]

## 40 CFR PART 70 GENERAL CONDITIONS

- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
  1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
  2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
  3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
  4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
  5. changes in emissions would not qualify as a significant modification; and
  6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]

## 40 CFR PART 70 GENERAL CONDITIONS

- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Surveillance Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
  3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
    - a. Report by June 30 to cover January through March
    - b. Report by September 30 to cover April through June
    - c. Report by December 31 to cover July through September
    - d. Report by March 31 to cover October through December
  4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]

## 40 CFR PART 70 GENERAL CONDITIONS

- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
  2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
  3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
  4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
  5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
  6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.
- The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]
- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated October 1, 1996. The application was subsequently revised on December 30, 2004. Additional information dated June 3 and 13, 2005, January 5, 6, and February 10, 2006 was also submitted.
- IV. This permit shall become invalid, for the sources not constructed, if:
  - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
  - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.  
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Surveillance Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Surveillance Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
- B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
- C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
1. Report by June 30 to cover January through March
2. Report by September 30 to cover April through June
3. Report by December 31 to cover July through September
4. Report by March 31 to cover October through December
- D. Each report submitted in accordance with this condition shall contain the following information:

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

1. Description of noncomplying emission(s);
  2. Cause of noncompliance;
  3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
  4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
  5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
  - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
  - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
  - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.
- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.

XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:

1. Generally be less than 5 TPY
2. Be less than the minimum emission rate (MER)
3. Be scheduled daily, weekly, monthly, etc., or
4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division  
La. Dept. of Environmental Quality  
Post Office Box 4302  
Baton Rouge, Louisiana 70821-4302

XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

**General Information**

AI ID: 1250 Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER19960005

Permit Number: 2930-V0

Air - Title V Regular Permit Initial

Also Known As:	ID	Name	User Group	Start Date
	0520-00016	Citgo Petroleum Corp - Lake Charles Manufacturing Complex	CDS Number	05-27-1993
	0520-0016	Citgo Petroleum Corp - Lake Charles Manufacturing Complex	Emission Inventory	03-01-2004
	73-1173981	Federal Tax ID	Federal Tax ID	01-21-1998
LAD0008080350		Citgo Petroleum Corp	Hazardous Waste Notification	08-13-1980
PC/CA		GPRABaselines	Hazardous Waste Permitting	10-01-1997
00212		Cities Service Oil & Gas	Inactive & Abandoned Sites	11-27-1979
LAD0008080350		Citgo Petroleum Corp	Inactive & Abandoned Sites	11-27-1979
LA0005941		LPDES #	LPDES Permit #	05-22-2003
LAR05N113		LPDES #	LPDES Permit #	10-24-2001
LAR10B787		LPDES #	LPDES Permit #	01-17-2002
LAR10B899		LPDES #	LPDES Permit #	06-25-2003
LAR10B978		LPDES #	LPDES Permit #	09-27-2002
LAR10C363		LPDES #	LPDES Permit #	08-08-2004
WP4260		WPC State Permit Number	LVWOPS Permit #	06-25-2003
LA-2312-L01		Radioactive Material License	Radiation License Number	10-02-2000
2312		X-Ray Registration Number	Radiation X-ray Registration Number	11-21-1999
C-019-1516		Site ID #	Solid Waste Facility No.	11-21-1999
GD-019-0494		SW ID #	Solid Waste Facility No.	04-30-2001
2098		Cities Service Co	TEMPO Merge	06-17-2003
27761		Citgo Petroleum Corp	TEMPO Merge	01-08-2001
38803		Citgo Petroleum Corp - Lake Charles Operations	TEMPO Merge	07-15-2001
41047		Citgo Petroleum Corp	TEMPO Merge	01-08-2001
47222		Citgo Petroleum Corp - Lake Charles Refinery	TEMPO Merge	09-12-2001
4723		Cities Service Co - Butyl Plant	TEMPO Merge	01-08-2001
4724		Cities Service Co - Lube Plant	TEMPO Merge	06-17-2003
0520-0016		Toxic Emissions Data Inventory #	Toxic Emissions Data Inventory #	01-01-1991
70602CTGPTHIGHW		TRI #	Toxic Release Inventory	07-09-2004
WQC 011005-02		Water Quality Certification #	Water Certification	10-09-2001
WQC 020605-05		Water Quality Certification #	Water Certification	06-06-2002
WQC RC 050209-04		Water Quality Certification #	Water Certification	02-22-2005
WQC TR 030814-01		Water Quality Certification #	Water Certification	08-14-2003

Physical Location:  
4401 Hwy 108 S  
(a portion of)

Main Phone: 3377086079

## General Information

**AI ID:** 1250 Citgo Petroleum Corp - Lake Charles Manufacturing Complex  
**Activity Number:** PER19960005  
**Permit Number:** 2930-V0  
**Air - Title V Regular Permit Initial**

Sulphur, LA 70669

<b>Mailing Address:</b>	PO Box 1562 Lake Charles, LA 706021562		
<b>Location of Front Gate:</b>	30° 11' 0" 78 hundredths latitude, 93° 19' 12" 40 hundredths longitude, Coordinate Method: GPS Code (Pseudo Range) Precise Position, Coordinate Datum: NAD27		
<b>Related People:</b>	<b>Name</b>	<b>Mailing Address</b>	<b>Phone (Type)</b>
	Mary Burns	PO Box 1562 Lake Charles, LA 706021562	3377087507 (WP)
	Vina Charles	PO Box 1562 Lake Charles, LA 706021562	Accident Prevention Contact for Radiation Contact For
	Dave Hollis	PO Box 1562 Lake Charles, LA 706021562	Solid Waste Billing Party for
	Vickie Pierre	PO Box 1562 Lake Charles, LA 706021562	Accident Prevention Billing Party for
	Judy Spears	PO Box 1562 Lake Charles, LA 706021562	Radiation Safety Officer for
	Judy Spears	PO Box 1562 Lake Charles, LA 706021562	Radiation Safety Officer for
	Russ Willmon	PO Box 1562 Lake Charles, LA 706021562	Responsible Official for
<b>Related Organizations:</b>	<b>Name</b>	<b>Address</b>	<b>Phone (Type)</b>
	Citgo Petroleum Corp	PO Box 4689 Houston, TX 772104689	8324864000 (WP)
	Citgo Petroleum Corp	PO Box 1562 Lake Charles, LA 706021562	Owns
	Citgo Petroleum Corp	PO Box 1562 Lake Charles, LA 706021562	Radiation License Billing Party for
	Citgo Petroleum Corp	PO Box 1562 Lake Charles, LA 706021562	Water Billing Party for
	URS Corp	7389 Florida Blvd Ste 300 Baton Rouge, LA 70806	Air Billing Party for
	URS Corp	7389 Florida Blvd Ste 300 Baton Rouge, LA 70806	Provides environmental services for
			Provides environmental services for
<b>SIC Codes:</b>	2819, Industrial inorganic chemicals, nec		
	2869, Industrial organic chemicals, nec		
	2911, Petroleum refining		

**Note:** This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to [facupdate@lafagov](mailto:facupdate@lafagov).

## INVENTORIES

Alt ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex  
 Activity Number: PER19960005  
 Permit Number: 2930-V0  
 Air - Title V Regular Permit Initial

### Subject Item Inventory

ID	Description	Tank Volume	Max Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT247	3(I)5 A Topper Furnace B-4	767 MM BTU/hr	456.6 MM BTU/hr	RFG	8760 hr/yr (All Year)	
EQT248	3(I)6 B Topper Furnace B-104	813 MM BTU/hr	510 MM BTU/hr	RFG	8760 hr/yr (All Year)	
EQT249	3(I-D)1 Vacuum Furnace B-201	200 MM BTU/hr	147 MM BTU/hr	RFG	8760 hr/yr (All Year)	
EQT250	3(I-D)2 Vacuum Furnace B-2A	87 MM BTU/hr	52 MM BTU/hr	RFG	8760 hr/yr (All Year)	
EQT251	3(I-D)3 Vacuum Furnace B-1	234 MM BTU/hr	116 MM BTU/hr	RFG	8760 hr/yr (All Year)	
EQT252	3(III)1 Coker 1 Furnace B-101	160 MM BTU/hr	112.1 MM BTU/hr	RFG	8760 hr/yr (All Year)	
EQT253	3(III)2 Coker 1 Furnace B-201	160 MM BTU/hr	109.7 MM BTU/hr	RFG	8760 hr/yr (All Year)	
EQT254	3(Vii)1 Straight Run Fractionation Furnace B-5	67.2 MM BTU/hr	56 MM BTU/hr	RFG	8760 hr/yr (All Year)	
EQT255	3(Vii-C)1 C Topper Furnace B-1C	213 MM BTU/hr	120 MM BTU/hr	RFG	8760 hr/yr (All Year)	
EQT256	3(Vii-C)2 C Topper Furnace B-2C	253 MM BTU/hr	120 MM BTU/hr	RFG	8760 hr/yr (All Year)	
EQT257	3(XII)1 Feed Prep Furnace B-101	213.3 MM BTU/hr	149.6 MM BTU/hr	RFG	8760 hr/yr (All Year)	
EQT258	3(I)7 A Topper Blowdown Stack B-2	-	-	-	8760 hr/yr (All Year)	
EQT259	3(I)8 B Topper Blowdown Stack B-105	1460 (other units)	110 gallons/min	-	8760 hr/yr (All Year)	
EQT260	3(I)4 Coker Blowdown Stack B102 (BD)	-	110 gallons/min	-	8760 hr/yr (All Year)	
EQT261	3(III)3 Process Water Collection System (Coker 1 sludge tank T-101)	262249 gallons	-	110 gallons/min	8760 hr/yr (All Year)	
EQT262	3(III)5 Process Water Collection System (Coker 1 sludge tank T-102)	300353 gallons	-	320 gallons/min	8760 hr/yr (All Year)	
EQT263	3(III)6 Process Water Collection System (Coker 1 sludge tank T-103)	48391 bbl	-	-	8760 hr/yr (All Year)	
EQT264	3(K-6)1 Powerhouse Boiler B1C	1325 MM BTU/hr	616.7 MM BTU/hr	RFG	8760 hr/yr (All Year)	
EQT265	3(K-6)2 Powerhouse Boiler B1B	1543 MM BTU/hr	531.6 MM BTU/hr	RFG	8760 hr/yr (All Year)	
EQT266	3(K-6)3 Powerhouse Boiler B1, BTA	2038 MM BTU/hr	890.6 MM BTU/hr	RFG	8760 hr/yr (All Year)	
EQT267	3(K-6)4 Powerhouse Boiler B2	580 MM BTU/hr	267.1 MM BTU/hr	RFG	8760 hr/yr (All Year)	
EQT268	3(K-6)5 Powerhouse Boiler B2A	536 MM BTU/hr	267.1 MM BTU/hr	RFG	8760 hr/yr (All Year)	
EQT269	3(K-6)6 Powerhouse Boiler B3, B3B	913 MM BTU/hr	229.5 MM BTU/hr	RFG	8760 hr/yr (All Year)	
EQT270	3(K-6)7 Powerhouse Boiler B3A, B3C	456 MM BTU/hr	128 MM BTU/hr	RFG	8760 hr/yr (All Year)	
EQT271	3(K-6)8 Powerhouse Boiler B5A	645 MM BTU/hr	337.6 MM BTU/hr	Natural Gas	8760 hr/yr (All Year)	
EQT272	3(K-6)9 Powerhouse Boiler B5	645 MM BTU/hr	337.6 MM BTU/hr	Natural Gas	8760 hr/yr (All Year)	
FUG074	3(MISC)1 Thermal Area Fugitives	-	-	-	8760 hr/yr (All Year)	

### Subject Item Group:

ID	Description	Included Components (from Above)
GRP122	3 (THERM-F) Furnace CAP	EQT249 3(I-D)1 Vacuum Furnace B-201
GRP122	3 (THERM-F) Furnace CAP	EQT250 3(I-D)2 Vacuum Furnace B-2A
GRP122	3 (THERM-F) Furnace CAP	EQT251 3(I-D)3 Vacuum Furnace B-1
GRP122	3 (THERM-F) Furnace CAP	EQT252 3(III)1 Coker 1 Furnace B-101
GRP122	3 (THERM-F) Furnace CAP	EQT253 3(III)2 Coker 1 Furnace B-201

## INVENTORIES

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER19960005

Permit Number: 2930-V0

Air - Title V Regular Permit Initial

### Subject Item Groups:

ID	Description	Included Components (from Above)
GRP122	3 (THERM-F) Furnace CAP	EQT254 3(VII)1 Straight Run Fractionation Furnace B-5
GRP122	3 (THERM-F) Furnace CAP	EQT255 3(VI-C)1 C Topper Furnace B-1C
GRP122	3 (THERM-F) Furnace CAP	EQT256 3(VI-C)2 C Topper Furnace B-2C
GRP122	3 (THERM-F) Furnace CAP	EQT257 3(XII)1 Feed Prep Furnace B-01
GRP123	(III-TANK) Process Water Tank CAP	EQT261 3(III)3 Process Water Collection System (Coker 1 sludge tank) T-101
GRP123	3 (III-TANK) Process Water Tank CAP	EQT262 3(III)5 Process Water Collection System (Coker 1 sludge tank) T-102
GRP123	3 (III-TANK) Process Water Tank CAP	EQT263 3(III)6 Process Water Collection System (Coker 1 sludge tank) T-103
GRP124	3(K-6)Boiler CAP (Primary Scenario - Normal Operation)	EQT264 3(K-6)1 Powerhouse Boiler B1C
GRP124	3(K-6)Boiler CAP (Primary Scenario - Normal Operation)	EQT265 3(K-6)2 Powerhouse Boiler B1B
GRP124	3(K-6)Boiler CAP (Primary Scenario - Normal Operation)	EQT266 3(K-6)3 Powerhouse Boiler B1, B1A
GRP124	3(K-6)Boiler CAP (Primary Scenario - Normal Operation)	EQT267 3(K-6)4 Powerhouse Boiler B2
GRP124	3(K-6)Boiler CAP (Primary Scenario - Normal Operation)	EQT268 3(K-6)5 Powerhouse Boiler B2A
GRP124	3(K-6)Boiler CAP (Primary Scenario - Normal Operation)	EQT269 3(K-6)6 Powerhouse Boiler B3, B3B
GRP124	3(K-6)Boiler CAP (Primary Scenario - Normal Operation)	EQT270 3(K-6)7 Powerhouse Boiler B3A, B3C
GRP124	3(K-6)Boiler CAP (Primary Scenario - Normal Operation)	EQT271 3(K-6)8 Powerhouse Boiler B5A
GRP124	3(K-6)Boiler CAP (Primary Scenario - Normal Operation)	EQT272 3(K-6)9 Powerhouse Boiler B5
GRP126	3(THERM-PSD)CAP A Topper and B Topper CAP	EQT247 3(IV)5 A Topper Furnace B-4
GRP126	3(THERM-PSD)CAP A Topper and B Topper CAP	EQT248 3(IV)6 B Topper Furnace B-104
GRP127	Facility - Thermal Area	EQT248 3(IV)6 B Topper Furnace B-4
GRP127	Facility - Thermal Area	EQT249 3(IV)6 B Topper Furnace B-104
GRP127	Facility - Thermal Area	EQT249 3(VI-D)1 Vacuum Furnace B-201
GRP127	Facility - Thermal Area	EQT250 3(VI-D)2 Vacuum Furnace B-2A
GRP127	Facility - Thermal Area	EQT251 3(VI-D)3 Vacuum Furnace B-1
GRP127	Facility - Thermal Area	EQT252 3(VII)1 Coker 1 Furnace B-101
GRP127	Facility - Thermal Area	EQT253 3(VII)2 Coker 1 Furnace B-201
GRP127	Facility - Thermal Area	EQT254 3(VII)1 Straight Run Fractionation Furnace B-5
GRP127	Facility - Thermal Area	EQT255 3(VI-C)1 C Topper Furnace B-1C
GRP127	Facility - Thermal Area	EQT256 3(VI-C)2 C Topper Furnace B-2C
GRP127	Facility - Thermal Area	EQT257 3(XII)1 Feed Prep Furnace B-01
GRP127	Facility - Thermal Area	EQT258 3(VII)2 Coker Blowdown Stack B-105
GRP127	Facility - Thermal Area	EQT259 3(VII)8 B Topper Blowdown Stack B-105
GRP127	Facility - Thermal Area	EQT260 3(VII)4 Coker Blowdown Stack B102 (BD)
GRP127	Facility - Thermal Area	EQT261 3(III)3 Process Water Collection System (Coker 1 sludge tank) T-101
GRP127	Facility - Thermal Area	EQT262 3(III)5 Process Water Collection System (Coker 1 sludge tank) T-102
GRP127	Facility - Thermal Area	EQT263 3(III)6 Process Water Collection System (Coker 1 sludge tank) T-103
GRP127	Facility - Thermal Area	EQT264 3(K-6)1 Powerhouse Boiler B1C
GRP127	Facility - Thermal Area	EQT265 3(K-6)2 Powerhouse Boiler B1B

## INVENTORIES

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER19960005

Permit Number: 2930-V0

Air - Title V Regular Permit Initial

### Subject Item Groups:

ID	Description	Included Components (from Above)
GRP127	Facility - Thermal Area	EQT266 3(K-6)3 Powerhouse Boiler B1, B1A
GRP127	Facility - Thermal Area	EQT267 3(K-6)4 Powerhouse Boiler B2
GRP127	Facility - Thermal Area	EQT268 3(K-6)5 Powerhouse Boiler B2A
GRP127	Facility - Thermal Area	EQT269 3(K-6)6 Powerhouse Boiler B3, B3B
GRP127	Facility - Thermal Area	EQT270 3(K-6)7 Powerhouse Boiler B3A, B3C
GRP127	Facility - Thermal Area	EQT271 3(K-6)8 Powerhouse Boiler B5A
GRP127	Facility - Thermal Area	EQT272 3(K-6)9 Powerhouse Boiler B5
GRP127	Facility - Thermal Area	FUG14 3(MSC)1 Thermal Area Fluitives
GRP136	Oil Boiler CAP (Alternate Operating Scenario)	EQT264 3(K-6)1 Powerhouse Boiler B1C
GRP136	Oil Boiler CAP (Alternate Operating Scenario)	EQT265 3(K-6)2 Powerhouse Boiler B1B
GRP136	Oil Boiler CAP (Alternate Operating Scenario)	EQT266 3(K-6)3 Powerhouse Boiler B1, B1A
GRP136	Oil Boiler CAP (Alternate Operating Scenario)	EQT267 3(K-6)4 Powerhouse Boiler B2
GRP136	Oil Boiler CAP (Alternate Operating Scenario)	EQT268 3(K-6)5 Powerhouse Boiler B2A
GRP136	Oil Boiler CAP (Alternate Operating Scenario)	EQT269 3(K-6)6 Powerhouse Boiler B3, B3B
GRP136	Oil Boiler CAP (Alternate Operating Scenario)	EQT270 3(K-6)7 Powerhouse Boiler B3A, B3C

### Relationships:

ID	Stack Information:	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
EQT247	3(I)5 A Topper Furnace B-4	41.1	101666.7	7.25	41.35	100	325
EQT248	3(I)6 B Topper Furnace B-104	65.9	163069.91	7.25	41.35	100	325
EQT249	3(I-D)1 Vacuum Furnace B-201	19.5	27746.5	5.5	23.8	100	1000
EQT250	3(I-D)2 Vacuum Furnace B-2A	7	11861.1	6	28.32	70	780
EQT251	3(I-D)3 Vacuum Furnace B-1	21.4	30500	7	38.55	200	700
EQT252	3(II)1 Coker 1 Furnace B-101	9.6	22239.6	7	38.55	155	750
EQT253	3(II)2 Coker 1 Furnace B-201	9.6	22239.6	7	38.55	152.5	670
EQT254	3(VI)1 Straight Run Fractionation Furnace B-5	8	11861.1	5.6	24.67	115.5	580
EQT255	3(VI-C)1 C Topper Furnace B-1C	9.5	28699.7	8	50.35	100	1000
EQT256	3(VI-C)2 C Topper Furnace B-2C	11	25416.7	7	38.55	120	850
EQT257	3(XII)1 Feed Prep Furnace B-101	22.2	31664.9	7	38.55	200	325
EQT258	3(VII)7 A Topper Blowdown Stack B-2	32	34	1.5	1.77	77	77
EQT260	3(VI)4 Coker Blowdown Stack B102 (BD)	32	34	1.5	1.77	65	77
EQT261	3(III)3 Process Water Collection System (Coker 1 sludge tank T-101					32	77
EQT262	3(III)5 Process Water Collection System (Coker 1 sludge tank T-102					12	77
EQT263	3(III)6 Process Water Collection System (Coker 1 sludge tank T-103					25	77
EQT264	3(K-6)1 Powerhouse Boiler B1C					80.5	375
EQT265	3(K-6)2 Powerhouse Boiler B1B					465	465
EQT266	3(K-6)3 Powerhouse Boiler B1, B1A					430	430

INVENTORIES

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER19960005

Permit Number: 2930-V0

Air - Title V Regular Permit Initial

## Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
EQT267 3(K-6)4 Powerhouse Boiler B2	15.5	65744.4	9.5	—	71	92.5
EQT268 3(K-6)5 Powerhouse Boiler B2A	15.5	65765.6	9.5	—	71	92.5
EQT269 3(K-6)6 Powerhouse Boiler B3, B3B	33.3	100353.5	—	—	—	—
EQT270 3(K-6)7 Powerhouse Boiler B3A, B3C	16.6	50092	8	—	—	—
EQT271 3(K-6)8 Powerhouse Boiler B5A	47.5	88524.1	6.29	50.35	75	680
EQT272 3(K-6)9 Powerhouse Boiler B5	47.6	88555.9	7.75	31.11	100	670
				47.25	100	300
						300

## Fee Information:

Sub Item Id	Multiplier	Units Of Measure	Fee Desc
GRP127		1,000 BBL/Day	0720 - Petroleum Refining (Rated Capacity)

**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER19960005

Permit Number: 2930-V0

Air - Title V Regular Permit Initial

**All phases**

Subject Item	PM <sub>10</sub>		SO <sub>2</sub>		NOx		CO		VOC		Max lb/hr		Tons/Year		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 247	5.71			58.59			105.27			63.16			4.14		
3(I)5					62.11										
EQT 248	6.06				111.59					66.95			4.38		
3(I)6-B															
EQT 249	1.49			15.28			54.90			16.47			1.08		
3(I-D)1					6.65										
EQT 250	0.65														
3(I-D)2															
EQT 251	1.74			17.88			64.24			19.27			1.26		
3(I-D)3															
EQT 252	1.19			12.22											
3(II)1					12.22										
EQT 253	1.19														
3(II)2															
EQT 254	0.50			5.13											
3(III)1															
EQT 255	1.59			16.27			58.47			17.54			1.15		
3(IV-C)1															
EQT 256	1.89			19.33			69.45			20.84			1.36		
3(V-C)2					16.29					17.57			1.15		
EQT 257	1.59														
3(VII)1															
EQT 258															
3(VII)															
EQT 259															
3(VIII)															
EQT 260															
3(VII)4															
EQT 261															
3(VII)3															
EQT 262															
3(VII)5															
EQT 263															
3(VII)6															
EQT 264	9.87				101.22								7.14		
3(K-6)1															

## EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER19960005

Permit Number: 2930-V0

Air - Title V Regular Permit Initial

### All phases

Subject Item	PM <sub>10</sub> Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	SO <sub>2</sub> Max lb/hr	Tons/Year	Avg lb/hr	NOx Max lb/hr	Tons/Year	Avg lb/hr	CO Max lb/hr	Tons/Year	Avg lb/hr	VOC Max lb/hr	Tons/Year	
EQT 265 3K-612	11.50	15.19			117.87			1311.55			127.07			8.32		
EQT 266 3K-613			155.69					1426.60			167.84			10.99		
EQT 267 3K-614	4.32			44.31			159.22			47.76			3.13			
EQT 268 3K-615	3.99				40.95			147.14			44.14			2.89		
EQT 269 3K-616	6.80				69.75			250.63			75.19			4.92		
EQT 270 3K-617	3.40				34.83			125.18			37.55			2.46		
EQT 271 3K-618	4.81				8.82			64.50			41.04			0.90		
EQT 272 3K-619	4.81				8.82			64.50			41.04			0.90		
FUG 014 3M/SC1													47.69	71.53	208.86	
GRP 122 30 THERM-FICAP	7.34	32.15	34.60		151.55	236.51		1035.93	81.13		355.33	5.31		23.27		
GRP 123 30 THERM-FICAP													1.63		7.14	
3000-TANK-CAP																
GRP 124 3K-61 Boiler CAP	26.94		118.00	105.94		464.01	1583.08		6933.90	285.09		1248.67			73.53	
GRP 126 30 THERM-FICAP	7.12		31.21	33.59		147.11	131.24		574.85	78.75		344.91	5.16		22.58	
GRP 136 Air Scenario-Boilers	39.01		170.88	699.28		3062.83	208.70		914.10	22.20		97.25	3.37		14.78	

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

### Permit Phase Totals:

PM10: 234.34 tons/yr  
 SO2: 3361.49 tons/yr  
 NOx: 8544.69 tons/yr  
 CO: 1948.91 tons/yr

## EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER19960005

Permit Number: 2930-V0

Air - Title V Regular Permit Initial

### All phases

VOC: 382.09 tons/yr

#### Emission rates Notes:

GRP 136	PM10	Tons/Year	The Permit Phase Total includes the highest emission rate (TPY) from the normal operating scenario or the alternate operating scenario for the boilers. Months: All Year
GRP 136	SO2	Tons/Year	The Permit Phase Total includes the highest emission rate (TPY) from the normal operating scenario or the alternate operating scenario for the boilers. Months: All Year
GRP 136	NOx	Tons/Year	The Permit Phase Total includes the highest emission rate (TPY) from the normal operating scenario or the alternate operating scenario for the boilers. Months: All Year
GRP 136	CO	Tons/Year	The Permit Phase Total includes the highest emission rate (TPY) from the normal operating scenario or the alternate operating scenario for the boilers. Months: All Year
GRP 136	VOC	Tons/Year	The Permit Phase Total includes the highest emission rate (TPY) from the normal operating scenario or the alternate operating scenario for the boilers. Months: All Year

## EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER19960005

Permit Number: 2930-V0

Air - Title V Regular Permit Initial

### All phases

1,3-Butadiene		2,2,4 Trimethylpentane		Ammonia		Benzene		Cumene	
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 258 3017						0.07	1.81	0.30	< 0.001
EQT 259 3018						0.084	2.207	0.37	< 0.001
EQT 260 30114						< 0.01	< 0.01	0.006	0.005
FUG 014 3MISC1	0.012	0.018	0.054	0.019	0.029	0.085		0.081	0.123
								0.353	0.121
								0.018	0.025
								0.027	0.025
								0.08	0.08

## EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER19960005

Permit Number: 2930-V0

Air - Title V Regular Permit Initial

### All phases

Subject Item	Ethylbenzene			Hydrogen sulfide			Naphthalene			Phenol			Polynuclear Aromatic Hydrocarbons		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 258 3(V)7				0.27	7.23	1.20									
EQT 259 3(V)8				0.338	8.828	1.48									
EQT 260 3(V)14	0.003	0.076	0.012	< 0.01	< 0.01	< 0.01									
FUG 014 3(MSC)1	0.043	0.064	0.188	0.229	0.344	1.005	0.034	0.051	0.15	0.001	0.002	0.006	0.009	0.014	0.041

## EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER19960005

Permit Number: 2930-V0

Air - Title V Regular Permit Initial

### All phases

Subject Item	Toluene			Xylenes (mixed isomers)			n-Hexane		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EOT 258 3(1)7							< 0.001	0.005	< 0.001
EOT 259 3(1)8							< 0.001	0.001	0.001
EOT 260 3(1)9	0.007	0.146	0.030	0.004	0.085	0.018	0.055	1.183	0.242
FUG 014 3(MSC)1	0.212	0.318	0.929	0.174	0.260	0.760	0.212	0.377	0.927

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

### Permit Parameter Totals:

1,3-Butadiene: 0.05 tons/yr

2,2,4-Trimethylpentane: 0.085 tons/yr

Ammonia: 0.68 tons/yr

Benzene: 0.38 tons/yr

Cumene: 0.08 tons/yr

Ethyl benzene: 0.20 tons/yr

Hydrogen sulfide: 3.69 tons/yr

n-Hexane: 1.17 tons/yr

Naphthalene: 0.15 tons/yr

Phenol: 0.006 tons/yr

Polymer Aromatic Hydrocarbons: 0.04 tons/yr

Toluene: 0.96 tons/yr

Xylene (mixed isomers): 0.78 tons/yr

### Emission Rates Notes:

## SPECIFIC REQUIREMENTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER19960005

Permit Number: 2930-V0

Air - Title V Regular Permit Initial

### EQT258 3(l)7 A Topper Blowdown Stack B-2

- 1 Nonhalogenated hydrocarbon burning: Temperature  $\geq 1300$  F (704 degrees C) for 0.3 second or greater in a direct-flame afterburner or an equally effective device which achieves a removal efficiency of 95 percent or greater, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 50 ppm by volume, whichever is less stringent. [LAC 33:III.2115.A]
- 2 Which Months: All Year Statistical Basis: None specified
- 3 Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate. [LAC 33:III.2115.I]
- 4 Demonstrate compliance with LAC 33:III.2115 as requested by DEQ. [LAC 33:III.2115.J.1]
- 5 Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e. [LAC 33:III.2115.J.2]
- 6 Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115. [LAC 33:III.2115.J]
- 7 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K]

### EQT259 3(l)8 B Topper Blowdown Stack B-105

- 8 Nonhalogenated hydrocarbon burning: Temperature  $\geq 1300$  F (704 degrees C) for 0.3 second or greater in a direct-flame afterburner or an equally effective device which achieves a removal efficiency of 95 percent or greater, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 50 ppm by volume, whichever is less stringent. [LAC 33:III.2115.A]
- 9 Which Months: All Year Statistical Basis: None specified
- 10 Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate. [LAC 33:III.2115.I]
- 11 Demonstrate compliance with LAC 33:III.2115 as requested by DEQ. [LAC 33:III.2115.J.1]
- 12 Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e. [LAC 33:III.2115.J.2]
- 13 Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115. [LAC 33:III.2115.J]
- 14 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K]

### EQT260 3(l)14 Coker Blowdown Stack B102 (BD)

- 14 Nonhalogenated hydrocarbon burning: Temperature  $\geq 1300$  F (704 degrees C) for 0.3 second or greater in a direct-flame afterburner or an equally effective device which achieves a removal efficiency of 95 percent or greater, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 50 ppm by volume, whichever is less stringent. [LAC 33:III.2115.A]
- 15 Which Months: All Year Statistical Basis: None specified
- 16 Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate. [LAC 33:III.2115.I]
- 17 Demonstrate compliance with LAC 33:III.2115 as requested by DEQ. [LAC 33:III.2115.J.1]

## SPECIFIC REQUIREMENTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER19960005

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### EQT260      3(III)4 Coker Blowdown Stack B102 (BD)

- 16 Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:II.2115.J.2.a through e. [LAC 33:II.2115.J.2]
- 17 Comply with LAC 33:II.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:II.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:II.2115 as a result of a revision of LAC 33:II.2115. [LAC 33:II.2115.]
- 18 Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed.
- 19 Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:II.2115.K]

### EQT270      3(K-6)7 Powerhouse Boiler B3A, B3C

- 19 Both boilers have a common stack. [LAC 33:II.501.C.6]

### EQT271      3(K-6)8 Powerhouse Boiler B5A

- 20 This source utilizes low NO<sub>x</sub> burners and natural gas. [LAC 33:II.501.C.6]
- 21 The permittee is authorized to operate in conformity with the specifications submitted to the Louisiana Department of Environmental Quality (LDEQ) as analyzed in LDEQ's document entitled "Preliminary Determination Summary" dated February 25, 1993, and subject to the following emissions limitations and other specified conditions. Specifications submitted are contained in the application and Emissions Inventory Questionnaire received January 19, 1993. This boiler, 3(K-6)8 Power House Boiler B5A, shall fire only sweet natural gas. [LAC 33:II.501.C.6]
- 22 Nitrogen oxides <= 0.20 lb/MMBTU (86 ng/J) heat input (expressed as NO<sub>2</sub>). The nitrogen oxide standards apply at all times, including periods of startup, shutdown, or malfunction. Subpart Db. [40 CFR 60.44b]  
Which Months: All Year Statistical Basis: Thirty-day rolling average
- 23 Conduct performance testing to demonstrate compliance with the nitrogen oxides emission standards in 40 CFR 60.44b by following 40 CFR 60.46b(c) or (f), or following 40 CFR 60.46b(g) and (h), as applicable. Subpart Db. [40 CFR 60.46b(c)]
- 24 Nitrogen oxides monitored by CMS continuously. Calculate nitrogen oxides emission rates as specified in 40 CFR 60.48b(d). Subpart Db. [40 CFR 60.48b(b)(1)]  
Which Months: All Year Statistical Basis: One-hour average
- 25 Nitrogen oxides recordkeeping by CMS continuously. Subpart Db. [40 CFR 60.48b(b)(1)]
- 26 Operate NO<sub>x</sub> continuous monitoring systems and record data during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Record data during calibration checks, and zero and span adjustments. Subpart Db. [40 CFR 60.48b(c)]
- 27 Submit notification. Due as provided by 40 CFR 60.7. Submit a notification of the actual date of initial startup including design heat input capacity of the affected facility identification of fuels to be combusted, copy of any federally enforceable requirement limiting annual capacity factor, and all other data as specified in 40 CFR 60.49b(a)(1) through (a)(4). Subpart Db. [40 CFR 60.49b(a)]
- 28 Submit the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in 40 CFR 60 Appendix B to DEQ. Subpart Db. [40 CFR 60.49b(b)]
- 29 Submit the maximum heat input capacity of the affected facility to DEQ. Subpart Db. [40 CFR 60.49b(b)]
- 30 Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. Determine the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Subpart Db. [40 CFR 60.49b(d)]

## SPECIFIC REQUIREMENTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER19960005

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### EQT271      3(K-6)8 Powerhouse Boiler B5A

- 31 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day, except as provided under 40 CFR 60.49b(p). Subpart Db. [40 CFR 60.49b(g)]
- 32 Submit excess emissions report: Due by the 30th day following the end of each six-month period. Report any excess emissions which occurred during the reporting period.
- 33 Submit reports containing the nitrogen dioxide emission rate information recorded under 40 CFR 60.49b(g). Subpart Db. [40 CFR 60.49b(i)]
- 34 Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]
- 35 Submit a report to DEQ containing the annual capacity factor over the previous 12 months, the average fuel nitrogen content during the reporting period if residual oil was fired, and all other applicable information per 40 CFR 60.49b(q)(1) through (q)(3). Subpart Db. [40 CFR 60.49b(q)]

### EQT272      3(K-6)9 Powerhouse Boiler B5

- 36 This source utilizes low NO<sub>x</sub> burners and natural gas. [LAC 33:III.501.C.6]
- 37 The permittee is authorized to operate in conformity with the specifications submitted to the Louisiana Department of Environmental Quality (LDEQ) as analyzed in LDEQ's document entitled "Preliminary Determination Summary" dated February 25, 1993, and subject to the following emissions limitations and other specified conditions. Specifications submitted are contained in the application and Emissions Inventory Questionnaire received January 19, 1993. This boiler, 3(K-6)9 Power House Boiler B5, shall fire only sweet natural gas. [LAC 33:III.501.C.6]
- 38 Nitrogen oxides <= 0.20 lb/MMBTU (86 ng/J) heat input (expressed as NO<sub>2</sub>). The nitrogen oxide standards apply at all times, including periods of startup, shutdown, or malfunction. Subpart Db. [40 CFR 60.44b]
- 39 Which Months: All Year      Statistical Basis: Thirty-day rolling average Conduct performance testing to demonstrate compliance with the nitrogen oxides emission standards in 40 CFR 60.44b by following 40 CFR 60.46b(c) or (f), or following 40 CFR 60.46b(g) and (h), as applicable. Subpart Db. [40 CFR 60.46b(c)]
- 40 Nitrogen oxides monitored by CMS continuously. Calculate nitrogen oxides emission rates as specified in 40 CFR 60.48b(d). Subpart Db. [40 CFR 60.48b(b)(1)]
- 41 Nitrogen oxides recordkeeping by CMS continuously. Subpart Db. [40 CFR 60.48b(b)(1)]
- 42 Operate NO<sub>x</sub> continuous monitoring systems and record data during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Record data during calibration checks, and zero and span adjustments. Subpart Db. [40 CFR 60.48b(c)]
- 43 Submit notification: Due as provided by 40 CFR 60.7. Submit a notification of the actual date of initial startup including design heat input capacity of the affected facility, identification of fuels to be combusted, copy of any federally enforceable requirement limiting annual capacity factor, and all other data as specified in 40 CFR 60.49b(a)(1)
- 44 Submit the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in 40 CFR 60 Appendix B to DEQ. Subpart Db. [40 CFR 60.49b(b)]
- 45 Submit the maximum heat input capacity data from the demonstration of the maximum heat input capacity of the affected facility to DEQ. Subpart Db. [40 CFR 60.49b(b)]
- 46 Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. Subpart Db. [40 CFR 60.49b(d)]
- 47 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day, except as provided under 40 CFR 60.49b(p). Subpart Db. [40 CFR 60.49b(g)]
- 48 Submit excess emissions report: Due by the 30th day following the end of each six-month period. Report any excess emissions which occurred during the reporting period.

## SPECIFIC REQUIREMENTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex  
Activity Number: PER19960005  
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### EQT272 3(K-6)9 Powerhouse Boiler B5

- 49 Submit reports containing the nitrogen dioxide emission rate information recorded under 40 CFR 60.49b(g). Subpart Db. [40 CFR 60.49b(i)]  
50 Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]  
51 Submit a report to DEQ containing the annual capacity factor over the previous 12 months, the average fuel nitrogen content during the reporting period if residual oil was fired, and all other applicable information per 40 CFR 60.49b(q)(1) through (q)(3). Subpart Db. [40 CFR 60.49b(q)]

### FUG014 3(MISC)1 Thermal Area Fugitives

- 52 Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment. [LAC 33:III.21.11]
- 53 Comply with LAC 33:III.21.22 by implementing the Louisiana Consolidated Fugitive Emission Program Guidelines. Compliance is achieved through compliance with the Louisiana Refinery MACT as modified in the signed Source Notice and Agreement. [LAC 33:III.21.22]
- 54 Comply with streamlined LDAR Program dated 4/1/7/96 and approved 5/27/99, addended on 5/24/05 and approved 7/28/05. [LAC 33:III.501.C.6]
- 55 Identify each piece of equipment in a process unit subject to this MACT determination such that it can be distinguished readily from equipment that is not subject to this MACT determination, as specified in Subsection C.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.51.09.A]
- 56 VOC, Total monitored by technically sound method at the regulation's specified frequency. Monitor equipment that has been physically removed from service, disassembled or dismantled in the next scheduled monitoring period or within 1 year of placing back in service, whichever occurs first, to determine if it is leaking, as specified in Subsection C.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.51.09.A]
- Which Months: All Year Statistical Basis: None specified
- 57 VOC, Total recordkeeping by manual logging at the regulation's specified frequency. Maintain a record of the monitoring in the log required in Subsection Q.5, as specified in Subsection C.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.51.09.A]
- 58 Pumps in light liquid service: VOC, Total monitored by the regulation's specified method(s) quarterly. Monitor to detect leaks by the methods specified in Subsection P.2, except as provided in Subsections C.4, D.4, D.5 and D.6, as specified in Paragraph D.1.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If an instrument reading of 2000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions as specified in Subsection D.3. [LAC 33:III.51.09.A]
- Which Months: All Year Statistical Basis: None specified
- 59 Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar), as specified in Paragraph D.1.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If there are indications of liquids dripping from the pump seal, monitor within 5 days. [LAC 33:III.51.09.A]
- Which Months: All Year Statistical Basis: None specified
- 60 Pumps in light liquid service: Repair leaks as soon as practicable, but not later than 1.5 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection D.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected. [LAC 33:III.51.09.A]
- 61 Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure, or equip with a barrier fluid degassing reservoir that is connected by a closed-vent system to a control device that complies with the requirements of Section N, or equip with a system that purges the barrier fluid into a process stream with zero VOTAP emissions to the atmosphere, as specified in Paragraph D.4.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection D.1. [LAC 33:III.51.09.A]
- 62 Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in VOTAP service and, if the pump is covered by standards under NSPS, is not in VOC service, as specified in Paragraph D.4.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection D.1. [LAC 33:III.51.09.A]

## **SPECIFIC REQUIREMENTS**

**AI ID:** 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

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### **FUG014 3(MISC)1 Thermal Area Fugitives**

- 63 Pumps in light liquid service (dual mechanical seal system): Equip each barrier fluid system with a sensor that will detect failure of the seal system, the barrier fluid system, or both, as specified in Paragraph D.4.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection D.1. [LAC 33:III.51.09.A]
- 64 Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar), as specified in Paragraph D.4.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate repair provisions specified in Paragraphs D.3.a and D.3.b. Comply with this requirement instead of the requirements in Subsection D.1. [LAC 33:III.51.09.A] Which Months: All Year Statistical Basis: None specified
- 65 Pumps in light liquid service (dual mechanical seal system): Equipment/operational data monitored by visual inspection/determination daily. Check sensor daily or equip with an audible alarm, as specified in Subparagraph D.4.e.i of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined in Paragraph D.4.c.ii, a leak is detected. If a leak is detected, initiate repair provisions specified in Paragraphs D.3.a and D.3.b. Comply with this requirement instead of the requirements in Subsection D.1. [LAC 33:III.51.09.A] Which Months: All Year Statistical Basis: None specified
- 66 Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both, as specified in Subparagraph D.4.e.ii of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection D.1. [LAC 33:III.51.09.A]
- 67 Pumps in light liquid service: Equip with a closed-vent system capable of capturing and transporting any leakage from the seal or seals to a control device that complies with the requirements of Section N, as specified in Paragraph D.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Alternative to Subsections D.1 through D.4. [LAC 33:III.51.09.A]
- 68 Pumps in light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency, as specified in Subparagraph D.6 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor pump as often as practicable and at least monthly. Comply with this requirement instead of the weekly visual inspection requirements in Paragraphs D.1.b and D.4.d, and the daily requirements in Paragraph D.4.c.i. [LAC 33:III.51.09.A] Which Months: All Year Statistical Basis: None specified
- 69 Compressors (seal system): VOC, Total monitored by the regulation's specified method(s) quarterly, as specified in Subsection E.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor to detect leaks using the methods specified in Section P. If an instrument reading of 5000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection E.8. [LAC 33:III.51.09.A] Which Months: All Year Statistical Basis: None specified
- 70 Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided for in Subsections C.4, E.9 and E.10, as specified in Subsection E.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.51.09.A]
- 71 Compressors (seal system): Operate with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure, or equip with a barrier fluid system that is connected by a closed-vent system to a control device that complies with the requirements of Section N, or equip with a system that purges the barrier fluid into a process stream with zero VOTAP emission to the atmosphere, as specified in Subsection E.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.51.09.A]
- 72 Compressors: Ensure that the barrier fluid is not in VOTAP service and, if the compressor is covered by a standard under NSPS, is not in VOC service, as specified in Subsection E.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.51.09.A]
- 73 Compressors: Equip each barrier fluid system as described in Subsections E.2 through E.4 with a sensor that will detect failure of the seal system, the barrier fluid system, or both, as specified in Subsection E.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.51.09.A]

## SPECIFIC REQUIREMENTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex  
Activity Number: PER19960005  
Permit Number: 2930-V0  
Air - Title V Regular Permit Initial

### FUG014 3(MISC)1 Thermal Area Fugitives

74 Compressors: Equipment/operational data monitored by technically sound method daily, as specified in Paragraph E.6.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Check each sensor as required in Subsection E.5 daily or equip with an audible alarm unless the compressor is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on criterion determined under Paragraph E.6.b, a leak is detected.

If a leak is detected, initiate repair provisions specified in Subsection E.8. [LAC 33:III.5109.A]  
Which Months: All Year Statistical Basis: None specified  
75 Compressors: Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both, as specified in Paragraph E.6.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]  
76 Compressors: Repair leaks as soon as practicable, but not later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection E.8 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected. [LAC 33:III.5109.A]

77 Compressors: Equip with a closed-vent system capable of capturing and transporting any leakage from the seal to a control device that complies with the requirements of Section N, except as provided for in Subsection E.10, as specified in Paragraph E.9 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Alternative to Subsections E.1 through E.7. [LAC 33:III.5109.A]

78 Compressors (no detectable emissions): Demonstrate that the compressor is operating with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in Subsection P.3, as specified in Paragraph E.10.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsections E.2 through E.9. [LAC 33:III.5109.A]

79 Compressors (no detectable emissions): VOC, Total monitored by the regulations specified method(s) once initially upon designation, annually, and at other times requested by DEQ, as specified in Paragraph E.10.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsections E.2 through E.9. [LAC 33:III.5109.A]

Which Months: All Year Statistical Basis: None specified  
80 Pressure relief device in gas/vapor service: VOC, Total < 500 ppm except during pressure releases, as measured by the method specified in Section P.3, as specified in Subsection F.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]

Which Months: All Year Statistical Basis: None specified  
81 Pressure relief device in gas/vapor service: After each pressure release, return to a condition of no leakage, as indicated by an instrument reading of less than 500 ppm, as soon as practicable, but no later than five calendar days after each pressure release, except as provided in Section M, as specified in Section F.2.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]

82 Pressure relief device in gas/vapor service: VOC, Total monitored by the regulation's specified method(s) within 5 days (calendar) after the pressure release to confirm the condition of no leakage, as indicated by an instrument reading of less than 500 ppm above background, as specified in Section F.2.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.3. [LAC 33:III.5109.A]

Which Months: All Year Statistical Basis: None specified  
83 Pressure relief device in gas/vapor service: Equip with a closed-vent system capable of capturing and transporting leakage from the pressure relief device to a control device as described in Section N, as specified in Section F.2.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Alternative to Subsections E.1 and F.2. [LAC 33:III.5109.A]

84 Sampling connection systems: Equip with a closed-purge system or closed-vent system, except as provided for in Section C, as specified in Subsection G.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Ensure that this system collects or captures the sample purge for return to the process. [LAC 33:III.5109.A]

## SPECIFIC REQUIREMENTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex  
Activity Number: PER19960005  
Permit Number: 2930-YO  
Air - Title V Regular Permit Initial

### FUG014 3(MISC)1 Thermal Area Fugitives

85 Sampling connection systems (closed-purge or closed-vent system): Return the purged process fluid directly to the process line with zero VOTAP emissions to the atmosphere, or collect and recycle the purged process fluid with zero VOTAP emissions to the atmosphere, or be designed and operated to capture and transport all the purged process fluid to a control device that complies with the requirements of Section N, as specified in Subsection G.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]

86 Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve that seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line or during maintenance and repair, as specified in Subsection H.1 of the Louisiana MACT Determination for Refinery Equipment Leaks

(July 26, 1994). [LAC 33:III.5109.A]  
87 Open-ended valves or lines (equipped with a second valve): Operate in a manner such that the valve on the process fluid end is closed before the second valve is closed, as specified in Subsection H.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]

88 Open-ended valves or lines: Monitor and repair in accordance with Section I., as specified in Subsection H.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]  
89 Valves in gas/vapor service and in light liquid service: VOC, Total monitored by the regulation's specified method(s) quarterly, as specified in Subsection I.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. If an instrument reading of 1000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection I.3. [LAC 33:III.5109.A]

90 Valves in gas/vapor service and in light liquid service (percent leaking valves  $\geq 4$ ): VOC, Total monitored by the regulation's specified method(s) monthly, as specified in Subsection I.7 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. Monthly monitoring must be initiated within 60 days of the previous monitoring and must continue until the percent of leaking valves is less than 4, at which time monitoring can be performed in accordance with Subsection I.1. [LAC 33:III.5109.A]

Which Months: All Year Statistical Basis: None specified

91 Valves in gas/vapor service and in light liquid service (percent leaking valves  $\leq 2$  for two consecutive quarterly leak detection periods): VOC, Total monitored by the regulation's specified method(s) semiannually, as specified in Paragraph J.2.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P. If the percentage of valves leaking is greater than 2 for any monitoring period, comply with the requirements as described in Section I., as specified in Paragraph J.2.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Optional alternative to quarterly monitoring. [LAC 33:III.5109.A]

Which Months: All Year Statistical Basis: None specified

92 Valves in gas/vapor service and in light liquid service (percent leaking valves  $\leq 2$  for two consecutive semiannual leak detection periods): VOC, Total monitored by the regulation's specified method(s) annually, as specified in Paragraph J.2.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P. If the percentage of valves leaking is greater than 2 for any monitoring period comply with the requirements as described in Section I., as specified in Paragraph J.2.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Optional alternative to quarterly monitoring. [LAC 33:III.5109.A]

Which Months: All Year Statistical Basis: None specified

93 Valves in gas/vapor service and in light liquid service (using skip period leak detection and repair): Notify DEQ at least 30 days before implementing one of the alternate monitoring scenarios in Section I., as specified in Paragraph J.1.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]

94 Valves in gas/vapor service and in light liquid service: Repair leaks as soon as practicable, but no later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection I.3 and I.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected. [LAC 33:III.5109.A]

## SPECIFIC REQUIREMENTS

AI ID: 1250 - Cligo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER19960005

Permit Number: 2930-V0

Air - Title V Regular Permit Initial

### FUG014 3(MISC)1 Thermal Area Fugitives

- 95 Valves in gas/vapor service and in light liquid service (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with Subsection I.1, as specified in Subsection 1.5.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection I.1. [LAC 33:III.5109.A]
- 96 Valves in gas/vapor service and in light liquid service (unsafe-to-monitor): VOC, Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valve as frequently as practicable during safe-to-monitor times, as specified in Subsection 1.5.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. Comply with this requirement instead of the requirements in Subsection I.1. [LAC 33:III.5109.A]

Which Months: All Year Statistical Basis: None specified

- 97 Valves in gas/vapor service and in light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than two meters above a support service, as specified in Subsection 1.6.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection I.1. [LAC 33:III.5109.A]

- 98 Instrument systems and pressure relief devices in liquid service; pumps, valves, connectors, and agitators in heavy liquid service; connectors < 1 inch in inside diameter in gas/vapor or light liquid service: VOC, Total monitored by the regulation's specified method(s) within 5 days of finding evidence of a potential leak by visual, audible, olfactory, or any other detection method, as specified in Subsection K.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. If an instrument reading of 2000 ppm or greater for pumps or 1000 ppm or greater for valves, connectors, instrument systems, or pressure relief devices is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection K.3. [LAC 33:III.5109.A]

Which Months: All Year Statistical Basis: None specified

- 99 Instrument systems and pressure relief devices in liquid service; pumps, valves, connectors, and agitators in heavy liquid service; connectors < 1 inch in inside diameter in gas/vapor or light liquid service: Repair leaks as soon as practicable, but not later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection K.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected. [LAC 33:III.5109.A]

- 100 Surge control vessels and bottoms receivers: Equip each surge control vessel and bottoms receiver that is not routed back to the process with a closed-vessel system that routes the organic vapors vented from the vessel back to the process or to a control device that complies with the requirements of Section N or to an alternate method of control which has been approved by DEQ, as specified in Section L of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]

- 101 Repair equipment before the end of the next process unit shutdown, if repair is technically infeasible with a process unit shutdown, as specified in Subsection M.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 102 Connectors in gas/vapor service and in light liquid service >= one inch in inside diameter size: VOC, Total monitored by the regulation's specified method(s) once initially, as specified in Subsections O.1 and O.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P. If an instrument reading >= 1 000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M. [LAC 33:III.5109.A]

Which Months: All Year Statistical Basis: None specified

- 103 Connectors in gas/vapor service and in light liquid service >= one inch in inside diameter size (percent of leaking connectors <= 2): VOC, Total monitored by the regulation's specified method(s) annually, as specified in Subsections O.2 and O.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitoring must be performed in the same calendar quarter as the previous monitoring. Monitor using the method specified in Section P. If an instrument reading >= 1 000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M. [LAC 33:III.5109.A]

Which Months: All Year Statistical Basis: None specified

## SPECIFIC REQUIREMENTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER19960005

Permit Number: 2930-V0

Air - Title V Regular Permit Initial

### FUG014    3(MISC)1 Thermal Area Fugitives

104 Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size (percent of leaking connectors  $>$  2): VOC, Total monitored by the regulations specified method(s) quarterly until good performance is obtained or until four quarterly monitorings have been performed, as specified in Subsections O.2 and O.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If good performance has not been obtained after four quarters of monitoring, monitor the remaining unchecked connectors within three months of the last quarterly monitoring period, as specified in Subsection O.6 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If monitoring of the remaining connectors indicates good performance, monitor in accordance with Subsection O.4. If monitoring of the remaining connectors indicates that good performance has not been obtained, monitor using the method specified in Section P. If an instrument reading  $\geq$  1,000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M. [LAC 33.III.S109.A]

Which Months: All Year    Statistical Basis: None specified

105 Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size (welded completely around the circumference of the interface or physically removed and the pipe welded together): Equipment/operational data monitored by the regulation's specified method(s) within three months after being welded. Check the integrity of the weld by monitoring according to the procedures in Section P or by testing using x-ray, acoustic monitoring, hydrotesting, or other applicable method, as specified in Subsection O.7 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection O. [LAC 33.III.S109.A]

Which Months: All Year    Statistical Basis: None specified

106 Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size (opened or otherwise had the seal broken): VOC, Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Monitor for leaks after being returned to VOTAP service during the next scheduled monitoring period, as specified in Paragraph O.8 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P. If the follow-up monitoring detects a leak, initiate repair provisions specified in Subsection O.9, unless it is determined to be unrepairable, in which case it is counted as unrepairable. [LAC 33.III.S109.A]

Which Months: All Year    Statistical Basis: None specified

107 Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size: Repair Leaks as soon as practicable, but not later than 15 calendar days after a leak is detected. Make a first attempt at repair no later than 5 calendar days after each leak is detected. If a leak is detected, monitor the for leaks within the first 90 days after its repair, as specified in Subsection O.9 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33.III.S109.A]

108 Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size (unsafe-to-monitor): Determine that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with Subsections O.2 through O.6, as specified in Subsection O.1.0.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection O.1. [LAC 33.III.S109.A]

109 Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size (unsafe-to-monitor): VOC, Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring as frequently as practicable during safe to monitor periods, as specified in Subsection O.1.0.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method in Section P. Comply with this requirement instead of the requirements in Subsection O.1. [LAC 33.III.S109.A]

Which Months: All Year    Statistical Basis: None specified

110 Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size (inaccessible or glass or glass-lined): Repair leaks as soon as practicable, but no later than 15 calendar days after detecting a leak by visual, audible, olfactory or other means, except as specified in Subsection O.8, as specified in Subsection O.1.1.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after the leak is detected, as specified in Subsection O.1.1.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the monitoring requirements of Subsection O.2 through O.6 and the recordkeeping and reporting requirements. [LAC 33.III.S109.A]

## **SPECIFIC REQUIREMENTS**

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER19960005

Permit Number: 2930-V0

Air - Title V Regular Permit Initial

### **FUG014 3(MISC)1 Thermal Area Fugitives**

- 111 Connectors in gas/vapor service and in liquid service => one inch in inside diameter size: Calculate the percent leaking connectors using the equation in Subsection O.12 for use in determining the monitoring frequency, as specified in Subsection O.12 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.51.09.A]
- 112 Comply with the test methods and procedures in Section P, as specified in Subsections P.1 through P.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.51.09.A]
- 113 Attach a weatherproof and readily visible identification, marked with the equipment identification, to leaking equipment, as specified in Subsection Q.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.51.09.A]
- 114 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in Subsections Q.1 through Q.1.3 as applicable, as specified in Section Q of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.51.09.A]
- 115 Submit statement. Due in writing by 90 days after approval of the Compliance Plan/Certificate of Compliance. Submit the information specified in Subsections R.1 and R.3, as specified in Subsections R.1 and R.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.51.09.A]
- 116 Submit report. Due quarterly starting three months after the initial report required in Subsection R.1. Include the information specified in Paragraphs R.2.a through R.2.c, as specified in Subsection R.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.51.09.A]
- 117 Valves in gas/vapor service and in liquid service (skip period leak detection and repair): Notify DEQ 30 days before implementing any of the alternate provisions of Section J, as specified in Subsection R.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.51.09.A]
- 118 Valves in gas/vapor service and in liquid service (difficult-to-monitor): VOC. Total monitored by the regulation's specified method(s) annually. Maintain a written plan that requires monitoring of the valve at least once per calendar year, as specified in Subsection 1.6.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. Comply with this requirement instead of the requirements in Subsection I.1. [LAC 33:III.51.09.A]
- Which Months: All Year Statistical Basis: None specified
- 119 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep for the life of the facility in a readily accessible location the design specifications which demonstrate that stormwater sewer systems, ancillary equipment, and non-contact cooling water systems subject to exemptions in 40 CFR 60.692-1 do not receive or come in contact with process or oily wastewater per 40 CFR 60.697(h), (i), and (j). Subpart QQ. [40 CFR 60.697]
- 120 Comply with 40 CFR 63 Subpart CC by implementing the Louisiana Consolidated Fugitive Emission Program Guidelines. Compliance is achieved through compliance with the Louisiana Refinery MACT as modified in the signed Source Notice and Agreement. [40 CFR 60. Subpart CC]
- 121 Comply with 40 CFR 60 Subpart GG by implementing the Louisiana Consolidated Fugitive Emission Program Guidelines. Compliance is achieved through compliance with the Louisiana Refinery MACT as modified in the signed Source Notice and Agreement. [40 CFR 60. Subpart GG]
- 122 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lanceing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: None specified
- 123 Emissions of smoke which pass onto or across a public road and create a traffic hazard are prohibited. [LAC 33:III.1103]
- 124 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic prohibited. [LAC 33:III.1303.B]
- 125 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]
- Which Months: All Year Statistical Basis: None specified

### **GRP122 3 (THERM-F) Furnace CAP**

- 122 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lanceing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: None specified
- 123 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]
- 124 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]
- 125 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]
- Which Months: All Year Statistical Basis: None specified

## SPECIFIC REQUIREMENTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER19960005

Permit Number: 2930-V0

Air - Title V Regular Permit Initial

### GRP122 3 (TERM-F) Furnace CAP

126 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III:Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III:1513]

127 Total annual emissions from 3(TERM-F)CAP shall not exceed the following rates:

SO<sub>2</sub>, 151.55 tons/yr

NOx, 1035.93 tons/yr

CO, 355.33 tons/yr

VOC, 23.27 tons/yr

Permittee shall calculate emissions on a 12 - month rolling average to ensure compliance with CAP limits. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. A report showing the emissions for the last twelve months shall be submitted to the Office of Compliance, Enforcement Division by March 31 st for the preceding calendar year. [LAC 33:III:501.C.6]

128 Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]

Which Months: All Year Statistical Basis: Three-hour rolling average

129 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H<sub>2</sub>S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]

Which Months: All Year Statistical Basis: None specified

130 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]

131 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]

132 This subpart establishes national emission limits and work practice standards for hazardous air pollutants (HAP) emitted from industrial, commercial, and institutional boilers and process heaters. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limits and work practice standards. For the affected sources (existing, large gas and liquid fuel units), only initial notification is required. [40 CFR 63.7480(DDDDD)]

### GRP123 3 (III-TANK) Process Water Tank CAP

133 Total annual emissions from 3(III-TANK)Process Water Tank CAP shall not exceed the following rates:

VOC, 7.14 tons/yr

Permittee shall calculate emissions on a 12 - month rolling average to ensure compliance with CAP limits. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. A report showing the emissions for the last twelve months shall be submitted to the Office of Compliance, Enforcement Division by March 31 st for the preceding calendar year. [LAC 33:III:501.C.6]

134 Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(k) as applicable. Subpart FF. [40 CFR 61.355]

135 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF. [40 CFR 61.356]

### GRP124 3(K-6)Boiler CAP (Primary Scenario - Normal Operation)

## SPECIFIC REQUIREMENTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER19960005

Permit Number: 2930-V0

Air - Title V Regular Permit Initial

### GRP124 3(K-6)Boiler CAP (Primary Scenario - Normal Operation)

- I 36 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]  
Which Months: All Year Statistical Basis: None specified
- I 37 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1.103]
- I 38 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1.303.B]

- I 39 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1.313.C]

- Which Months: All Year Statistical Basis: None specified

- I 40 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1.513]

- I 41 Total annual emissions from 3(K-6)Boiler CAP (Primary Scenario - Normal Operation) shall not exceed the following rates:

PM10, 118.00 tons/yr  
SO2, 464.01 tons/yr  
NOx, 6933.90 tons/yr  
CO, 1 248.67 tons/yr  
VOC, 73.53 tons/yr

Permittee shall calculate emissions on a 12 - month rolling average to ensure compliance with CAP limits. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. A report showing the emissions for the last twelve months shall be submitted to the Office of Compliance, Enforcement Division by March 31 st for the preceding calendar year. [LAC 33:III.501.C.6]

- I 42 To ensure compliance with contemporaneous emission changes for this permit, the following units shall remain permanently shutdown: 3(V)1 -Furnace B-1, 3(V)2-Furnace B-2, and 2(202)3-Boiler BF-601-C. [LAC 33:III.501.C.6]

- I 43 Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]  
Which Months: All Year Statistical Basis: Three-hour rolling average

- I 44 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device.  
Subpart J. [40 CFR 60.105(a)(4)]  
Which Months: All Year Statistical Basis: None specified

- I 45 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]

- I 46 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]

- I 47 This subpart establishes national emission limits and work practice standards for hazardous air pollutants (HAP) emitted from industrial, commercial, and institutional boilers and process heaters. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limits and work practice standards. For the affected sources (existing, large gas and liquid fuel units), only initial notification is required. [40 CFR 63.7480(DDDDD)]

### GRP126 3(THERM-PSD)CAP A Topper and B Topper CAP

## SPECIFIC REQUIREMENTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER19960005

Permit Number: 2930-V0

Air - Title V Regular Permit Initial

### GRP126 3(THERM-PSD)CAP A Topper and B Topper CAP

- 148 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: None specified
- 149 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]
- 150 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]

151 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]

Which Months: All Year Statistical Basis: None specified

152 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

153 i. (Per PSD-LA-180) The permittee is authorized to construct and operate subject to the following emission limitations which represent the best available control technology for this facility. These emission limitations represent the maximum emissions allowed for the specified pollutants.

EQT 247 (A-Topper B4 )

Particulate (TSP): 39.5 lb/hr, SO2: 479.0 lb/hr, NOx: 320.0 lb/hr, CO: 15.3 lb/hr, Opacity: 20 percent

EQT 248 (B-Topper B104 )

Particulate (TSP): 39.5 lb/hr, SO2: 479.0 lb/hr, NOx: 320.0 lb/hr, CO: 15.3 lb/hr, Opacity: 20 percent

2. The permittee is authorized to operate this permitted source 24 hours per day, 7 days per week, 52 weeks per year. [LAC 33:III.501.C.6]

154 3. The modification of the Cities Service Lake Charles Operations located at Lake Charles, Louisiana shall be performed in accordance with the application and its supplements and revisions (as cited below by date) submitted for PSD review

a. September 21, 1978

b. November 27, 1978

4. The flue gas from each of the heaters EQT 247, B-1 A (A-Topper B-4) and EQT 248, B-1 B (B-Topper B-104) shall have installed a continuous monitor for measuring the oxygen content of the flue gas. Such monitor shall meet the requirements of 40 CFR Part 60, Appendix B, Performance Specification 3.

5. The permittee shall also comply with the requirements as set out in the attached "Use of Flue Gas Oxygen Meter as BACT for Combustion Controls" [LAC 33:III.501.C.6]

155 Total annual emissions from 3(THERM-PSD)CAP A Topper and B Topper CAP shall not exceed the following rates:

PM10 0.31.21 tons/yr  
SO2 147.11 tons/yr  
NOx 574.85 tons/yr  
CO 344.91 tons/yr  
VOC 22.58 tons/yr

Permittee shall calculate emissions on a 12 - month rolling average to ensure compliance with CAP limits. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. A report showing the emissions for the last twelve months shall be submitted to the Office of Compliance, Enforcement Division by March 31st for the preceding calendar year. [LAC 33:III.501.C.6]

156 Fuel gas: Hydrogen sulfide <= 0.1 g/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]

Which Months: All Year Statistical Basis: Three-hour rolling average

## SPECIFIC REQUIREMENTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER19960005

Permit Number: 2930-V0

Air - Title V Regular Permit Initial

### GRP126 3(THERM-PSD)CAP A Topper and B Topper CAP

- 157 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H<sub>2</sub>S in fuel gases before being burned in any fuel gas combustion device.
- Subpart J [40 CFR 60.105(a)(4)]  
Which Months: All Year Statistical Basis: None specified
- 158 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J [40 CFR 60.106(a)]
- 159 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J [40 CFR 60.106]
- 160 This subpart establishes national emission limits and work practice standards for hazardous air pollutants (HAP) emitted from industrial, commercial, and institutional boilers and process heaters. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limits and work practice standards. For the affected sources (existing, large gas and liquid fuel units), only initial notification is required. [40 CFR 63.7480(DDDDD)]

### GRP127 Facility - Thermal Area

- 161 Outdoor burning of waste material or other combustible material is prohibited. [LAC 33:III.1.109.B]
- 162 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1.305.1-7. [LAC 33:III.1.305]
- 163 Opacity <= 20 percent, except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1.311.C]
- Which Months: All Year Statistical Basis: Six-minute average
- 164 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.21.13.A.1-5. [LAC 33:III.21.13.A]
- 165 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.21.9]
- 166 Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited. [LAC 33:III.2901.D]
- 167 If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G. [LAC 33:III.2901.F]
- 168 Carbon monoxide <= 1948.91 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 169 Nitrogen oxides <= 8544.69 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 170 Particulate matter (10 microns or less) <= 234.34 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 171 Sulfur dioxide <= 3361.49 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 172 VOC, Total <= 382.09 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 173 1,3-Butadiene <= 0.05 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum

## **SPECIFIC REQUIREMENTS**

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER19960005

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Air - Title V Regular Permit Initial

### **GRP127 Facility - Thermal Area**

- 174 Naphthalene <= 0.15 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 175 Benzene <= 0.38 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 176 Cumene <= 0.08 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 177 Ethyl benzene <= 0.20 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 178 n-Hexane <= 1.17 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 179 Polynuclear Aromatic Hydrocarbons <= 0.04 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 180 Phenol <= 0.006 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 181 Toluene <= 0.96 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 182 Xylene (mixed isomers) <= 0.78 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 183 Ammonia <= 0.68 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 184 2,2,4-Trimethylpentane <= 0.085 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 185 Submit notification. Due to the permitting authority prior to changing scenarios. Include in the notification a description of the proposed action, the rate of the emissions, the identity of the sources involved and the change in emissions. Make any appropriate permit revision reflecting the emission reduction prior to the commencement of operation and in accordance with the procedures of LAC 33: III Chapter 5. [LAC 33:III.501.C.6]
- 186 The permitted totals include the tons per year emissions from the scenario with the highest total emissions on an individual pollutant basis. [LAC 33:III.501.C.6]
- 187 Process Drain Shield: Process drains subject to LAC 33:III.2122 and either 40 CFR 60 Subpart QQQ, 40 CFR Part 61 Subpart FF or 40 CFR 63 Subpart CC shall demonstrate compliance with LAC 33:III.2122 by meeting applicable control, inspection and repair requirements of 40 CFR 60 Subpart QQQ, 40 CFR 61 Subpart FF or 40 CFR Part 63 Subpart CC. [LAC 33:III.501.C.6]
- 188 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III. Chapter 51 Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33: III.Chapter 51.Subchapter A, after the effective date of the standard. [LAC 33:III.5105.A.1]
- 189 Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109. [LAC 33:III.5105.A.2]
- 190 Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard. [LAC 33:III.5105.A.3]
- 191 Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A. [LAC 33:III.5105.A.4]
- 192 Submit Annual Emissions Report (TEDI): Due annually, by the 1st of July, to the Office of Environmental Assessment, Environmental Evaluation Division in a form specified by the department. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3. [LAC 33:III.5107.A.2]

## SPECIFIC REQUIREMENTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex  
Activity Number: PER19960005  
Permit Number: 2930-V0  
Air - Title V Regular Permit Initial

### GRP127 Facility - Thermal Area

- 193 Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations" [LAC 33:III.51.07.A.3]
- 194 Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). [LAC 33:III.51.07.B.1]
- 195 Submit notification: Due to the Office of Environmental Compliance, except as provided in LAC 33:III.51.07.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.Chapter 51.Table 51.1 or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.3923. [LAC 33:III.51.07.B.2]
- 196 Submit notification: Due to the Office of Environmental Compliance immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3931, except as provided in LAC 33:III.51.07.B.6. Submit notification in the manner provided in LAC 33:III.3923. [LAC 33:III.51.07.B.2]
- 197 Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.51.07.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.51.07.B.4.a through viii. [LAC 33:III.51.07.B.4]
- 198 Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge. [LAC 33:III.51.07.B.5]
- 199 Fugitive Emission Monitoring Shield: Compliance with the requirements of the monitoring program identified in the Site Source Agreement for Consolidation of the LCMC Fugitive Emission Monitoring program (as reflected in the Part 70 specific permit conditions) constitutes full compliance for all applicable fugitive emissions programs being consolidated. The applicable regulations are as listed in the Stringency Table in the Louisiana Fugitive Emissions Program Consolidation Guidelines. [LAC 33:III.51.09.A]
- 200 Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology. [LAC 33:III.51.09.B.3]
- 201 Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.51.12.Table 51.2. [LAC 33:III.51.09.B]
- 202 Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.51.13.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department. [LAC 33:III.51.09.C]
- 203 Compliance with MACT is achieved by LDAR Program dated 4/1/96, approved 5/27/99, addended 5/24/05 and approved 7/28/05. [LAC 33:III.51.09]
- 204 Obtain a Louisiana Air Permit in accordance with LAC 33:III.51.11.B and C and in accordance with LAC 33:III.1701, before commencement of the construction of any new source. [LAC 33:III.51.11.A.1]

## SPECIFIC REQUIREMENTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER19960005

Permit Number: 29330-Y0

Air - Title V Regular Permit Initial

### GRP127 Facility - Thermal Area

- 205 Obtain a permit modification in accordance with LAC 33:III.511.B and C before commencement of any modification not specified in a compliance plan submitted under LAC 33:III.51.09.D, if the modification will result in an increase in emissions of any toxic air pollutant or will create a new point source. [LAC 33:III.511.A.2.a]
- 206 Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified. [LAC 33:III.5111.A.]
- 207 Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel. [LAC 33:III.5113.B.1]
- 208 Submit emission test results: Due to the Office of Environmental Assessment, Environmental Technology Division within 45 days after completion of the test. [LAC 33:III.5113.B.1]
- 209 Conduct emission tests as set forth in accordance with Test Methods 40 CFR Parts 60, 61, and 63 or in accordance with alternative test methods approved by the administrative authority. [LAC 33:III.5113.B.2]
- 210 Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department. [LAC 33:III.5113.B.3]
- 211 Provide emission testing facilities as specified in LAC 33:III.5113.B.4 through e. [LAC 33:III.5113.B.4]
- 212 Analyze samples and determine emissions within 30 days after each emission test has been completed. [LAC 33:III.5113.B.5]
- 213 Submit certified letter: Due to the Office of Environmental Assessment, Environmental Technology Division before the close of business on the 45th day following the completion of the emission test. Report the determinations of the emission test. [LAC 33:III.5113.B.5]
- 214 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ. [LAC 33:III.5113.B.6]
- 215 Submit notification: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test. [LAC 33:III.5113.B.7]
- 216 Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence. [LAC 33:III.5113.C.1]
- 217 Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ. [LAC 33:III.5113.C.2]
- 218 Submit performance evaluation report: Due to the Office of Environmental Assessment, Environmental Technology Division within 60 days of the monitoring system performance evaluation. [LAC 33:III.5113.C.2]
- 219 Submit notification in writing: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before a performance evaluation of the monitoring system to begin. [LAC 33:III.5113.C.2]
- 220 Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluents from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems. [LAC 33:III.5113.C.3]
- 221 Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B. [LAC 33:III.5113.C.5.a]
- 222 Submit report: Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Furnish DEQ with two or more copies of a written report of the test results within 60 days. [LAC 33:III.5113.C.5.a]
- 223 Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS. [LAC 33:III.5113.C.5.d]
- 224 Collect and reduce all data as specified in LAC 33:III.5113.C.5.e.i and ii, if required to install a CMS. [LAC 33:III.5113.C.5.c]

## SPECIFIC REQUIREMENTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER19960005

Permit Number: 2930-YO

Air - Title V Regular Permit Initial

### GRP127 Facility - Thermal Area

- 225 Submit plan Due to the Office of Environmental Assessment, Environmental Technology Division within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system. [LAC 33:II.51.13.C.5]
- 226 Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternative location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ. [LAC 33:II.51.3.C.7]
- 227 An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:II.51.1.F.2 and F.3 for each demolition or renovation activity. [LAC 33:II.51.1.F.1. f]
- 228 Submit initial emissions inventory report. Due to the Department of Environmental Quality on or before October 1, 1994. Submit on a form or in an electronic format specified by the department and include the information specified in LAC 33:II.5107.A.1 through 7. [LAC 33:II.5107.A]
- 229 Submit Emission Inventory (EI)/Annual Emissions Statement. Due annually, by the 1st of July to the Department of Environmental Quality, Office of Environmental Services, Permits Division. Include the information in LAC 33:II.5107.A for the preceding calendar year. [LAC 33:II.5107.B]
- 230 Activate the preplanned abatement strategy listed in LAC 33:II.5611. Table 5 when the administrative authority declares an Air Pollution Alert. [LAC 33:II.5609.A.1.b]
- 231 Activate the preplanned strategy listed in LAC 33:II.5611. Table 6 when the administrative authority declares an Air Pollution Warning. [LAC 33:II.5609.A.2.b]
- 232 Activate the preplanned abatement strategy listed in LAC 33:II.5611. Table 7 when the administrative authority declares an Air Pollution Emergency. [LAC 33:II.5609.A.3.b]
- 233 Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:II.5611. Tables 5, 6, and 7. [LAC 33:II.5609.A]
- 234 Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency. Due within 30 days after requested by the administrative authority. [LAC 33:II.5611.A]
- 235 During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations. [LAC 33:II.5611.B]
- 236 Comply with the provisions in 40 CFR 68, except as specified in LAC 33:II.5901. [LAC 33:II.5901.A]
- 237 Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.1.30, Table 59.0 of LAC 33:II.5907, or Table 59.1 of LAC 33:II.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur. [LAC 33:II.5907]
- 238 Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:II.Chapter 59, whichever is later. Include the information listed in LAC 33:II.5911.B, and submit to the Department of Environmental Quality, Office of Environmental Compliance, Surveillance Division. [LAC 33:II.5911.A]
- 239 Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Surveillance Division within 60 days after the information in the submitted registration is no longer accurate. [LAC 33:II.5911.C]
- 240 905 Shield: Where a specific regulatory work practice or operational standard applies to an affected facility, compliance with the applicable regulatory work practice or operational standard demonstrates compliance with LAC 33:II.905. [LAC 33:II.905]
- 241 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Environmental Evaluation Division. Include all data applicable to the emissions source(s), as specified in LAC 33:II.91.9.A-D. [LAC 33:II.91.9.D]
- 242 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]
- 243 Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. [40 CFR 61.145(b)(1)]

## SPECIFIC REQUIREMENTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER19960005

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### GRP127 Facility - Thermal Area

- 244 Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M. [40 CFR 61.148]
- 245 As part of the waiver application submitted under 40 CFR 61.342(b)(1), the owner or operator shall submit to the DEQ a plan under 40 CFR 61.10(b)(3) that is an enforceable commitment to obtain environmental benefits to mitigate the benzene emissions that result from extending the compliance date. The plan shall include the information specified in 40 CFR 61.342(b)(2)(i-iii). [40 CFR 61.342(b)(2)]
- 246 Comply with the requirements of 40 CFR 61.342(c) through (h) no later than 90 days following the effective date, unless a waiver of compliance has been obtained under 40 CFR 61.11, or by the initial startup for a new source with an initial startup after the effective date. Subpart FF. [40 CFR 61.342(b)]
- 247 Waste streams containing benzene: Remove or destroy the benzene contained in the waste using a treatment process or wastewater treatment system that complies with the standards specified in 40 CFR 61.348. Subpart FF. [40 CFR 61.342(b)(1)(i)]
- 248 Benzene <= 6 Mg/yr (6.6 ton/yr), as determined in 40 CFR 61.355(k). Subpart FF. [40 CFR 61.342(c)(2)(i)]
- 249 Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF. [40 CFR 61.355] Which Months: All Year Statistical Basis: Annual Maximum
- 250 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF. [40 CFR 61.356]
- 251 Submit report: Due within 90 days after January 7, 1993. Submit a report that summarizes the regulatory status of each waste stream subject to 40 CFR 61.342 and is determined by the procedures specified in 40 CFR 61.355(c) to contain benzene. Include the information specified in 40 CFR 61.357(a)(1) through (a)(4). If there is no benzene onsite in wastes, products, by-products, or intermediates, submit an initial report that is a statement to this effect. Subpart FF. [40 CFR 61.357(a)]
- 252 Submit report: Due by initial startup. Submit a report that summarizes the regulatory status of each waste stream subject to 40 CFR 61.342 and is determined by the procedures specified in 40 CFR 61.355(c) to contain benzene. Include the information specified in 40 CFR 61.357(a)(1) through (a)(4). If there is no benzene onsite in wastes, products, or intermediates, submit an initial report that is a statement to this effect. Subpart FF. [40 CFR 61.357(a)]
- 253 Submit report: Due within 90 days after January 7, 1993. Submit a certification that the equipment necessary to comply with 40 CFR 61 Subpart FF has been installed and that the required initial inspections or tests have been carried out in accordance with 40 CFR 61 Subpart FF. Subpart FF. [40 CFR 61.357(d)(1)]
- 254 Submit report: Due by the date of initial startup. Submit a certification that the equipment necessary to comply with 40 CFR 61 Subpart FF has been installed and that the required initial inspections or tests have been carried out in accordance with 40 CFR 61 Subpart FF. Subpart FF. [40 CFR 61.357(d)(1)]
- 255 Submit report: Due annually, beginning on the date that equipment necessary to comply with 40 CFR 61.357(a)(1) through (a)(3) or, if the information listed in 40 CFR 61.357(a)(1) has been certified in accordance with 40 CFR 61.357(d)(1). Statement to that effect. Subpart FF. [40 CFR 61.357(d)(2)]
- 256 Include in the report required by 40 CFR 61.357(d)(2) a table presenting the information specified in 40 CFR 61.357(d)(5)(i) and (d)(5)(ii) for each waste stream. Subpart FF. [40 CFR 61.357(d)(5)]
- 257 Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a certification that all of the required inspections have been carried out in accordance with the requirements of 40 CFR 61 Subpart FF. Subpart FF. [40 CFR 61.357(d)(6)]
- 258 Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Include the information specified in 40 CFR 61.357(d)(7)(i) through (d)(7)(v). Subpart FF. [40 CFR 61.357(d)(7)]
- 259 Submit report: Due annually, beginning one year after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a report that summarizes all inspections required by 40 CFR 61.342 through 61.354 during which detectable emissions are measured or a problem that could result in benzene emissions is identified, including information about the repairs or corrective action taken. Subpart FF. [40 CFR 61.357(d)(8)]

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### GRP127 Facility - Thermal Area

- 260 Notify DEQ of the alternative standard selected in the report required under 40 CFR 61.07 or 61.10. Subpart FF. [40 CFR 61.357(c)]
- 261 All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A. [40 CFR 61]
- 262 Annual Reporting Shield: Semi-annual reporting periods required by 40 CFR Part 63 Subparts G(HON) and 40 CFR Part 63 subpart CC (MRACT) will be on a calendar basis (January 1 through June 30 and July 1 through December 31 ) for consistency with Title V reporting schedule. [40 CFR 63.10(a)(5), 40 CFR 60.19(c)-(e)]
- 263 All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A as delineated in Table 6 of 40 CFR 63 Subpart C.C. [40 CFR 63]
- 264 Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(viii)]
- 265 Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(ii)(A)]
- 266 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(ii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(ii)(B)]
- 267 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
- 268 Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B. [40 CFR 82,Subpart F]
- 269 Hydrogen sulfide <= 3.69 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum

### 3(K-6) Oil Boiler CAP (Alternate Operating Scenario)

- 270 For curtailment of Natural Gas as cited in the NSR Consent Decree. [LAC 33:III.501.C.6]
- 271 Permittee shall be allowed to burn fuel oil containing 1.0% +/- 0.05% sulfur in the boilers of the refinery Powerhouse as identified in the point source 3(K-6) Oil Boiler CAP (Alternate Operating Scenario) up to the listed heat release capacity of each boiler in the eventuality of natural gas curtailment or supplier shortage or failure of the refinery fuel gas system. Visible emissions while burning fuel oil shall not exceed 20% opacity, except for one 6 minute period per hour. Records of fuel oil usage and emissions shall be kept when burning fuel oils as follows: [LAC 33:III.501.C.6]
- 272 1. A sample of fuel oil to the boilers will be analyzed each day for percent sulfur by weight, API gravity, and ash content. Results shall be recorded.
2. The daily volume of fuel oil to each boiler shall be determined and recorded.
  3. A daily limit of 21,651 BPD of fuel oil usage shall not be exceeded.
  4. Total barrels of fuel oil burned shall be summed for the year and recorded.
  5. Emissions of criteria pollutants from fuel oil combustion shall be calculated and added to the criteria pollutants from refinery fuel gas and natural gas combustion and reported in the annual emissions inventory for each fuel oil burning source as well as in the plant-wide emissions totals.
  7. All records identified above shall be kept for five years and shall be made available for inspection upon request. [LAC 33:III.501.C.6]
- 273 Permittee shall notify DEQ prior to changing operating scenarios. [LAC 33:III.501.C.6]

## **SPECIFIC REQUIREMENTS**

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### **GRP136      3(K-6) Oil Boiler CAP (Alternate Operating Scenario)**

274 Total annual emissions from 3(K-6) Oil Boiler CAP (Alternate Operating Scenario) shall not exceed the following rates:

PM10, 170.88 tons/yr

SO2, 3062.83 tons/yr

NOx, 914.10 tons/yr

CO, 97.25 tons/yr

VOC, 14.78 tons/yr

Permittee shall calculate emissions on a 12 - month rolling average to ensure compliance with CAP limits. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. A report showing the emissions for the last twelve months shall be submitted to the Office of Compliance, Enforcement Division by March 31 st for the preceding calendar year. [LAC 33:II.501.C.6]